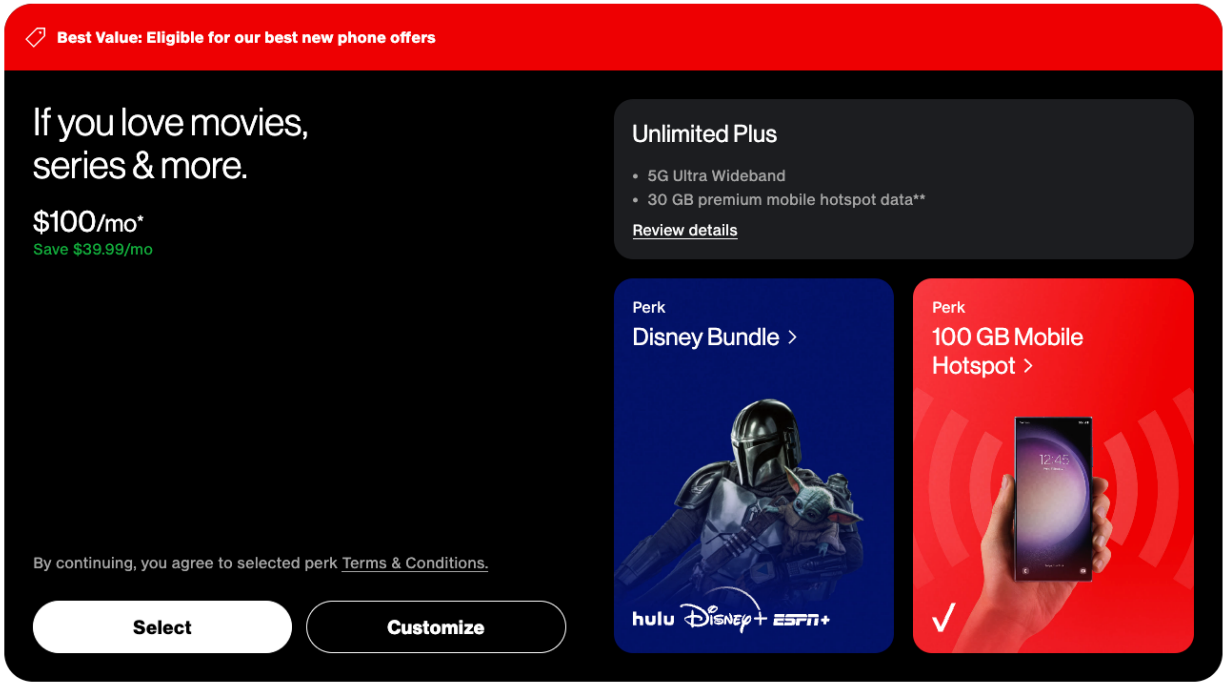
Exhibit F

Exhibit F - U.S. Patent No. 8,924,543 ("'543 Patent")

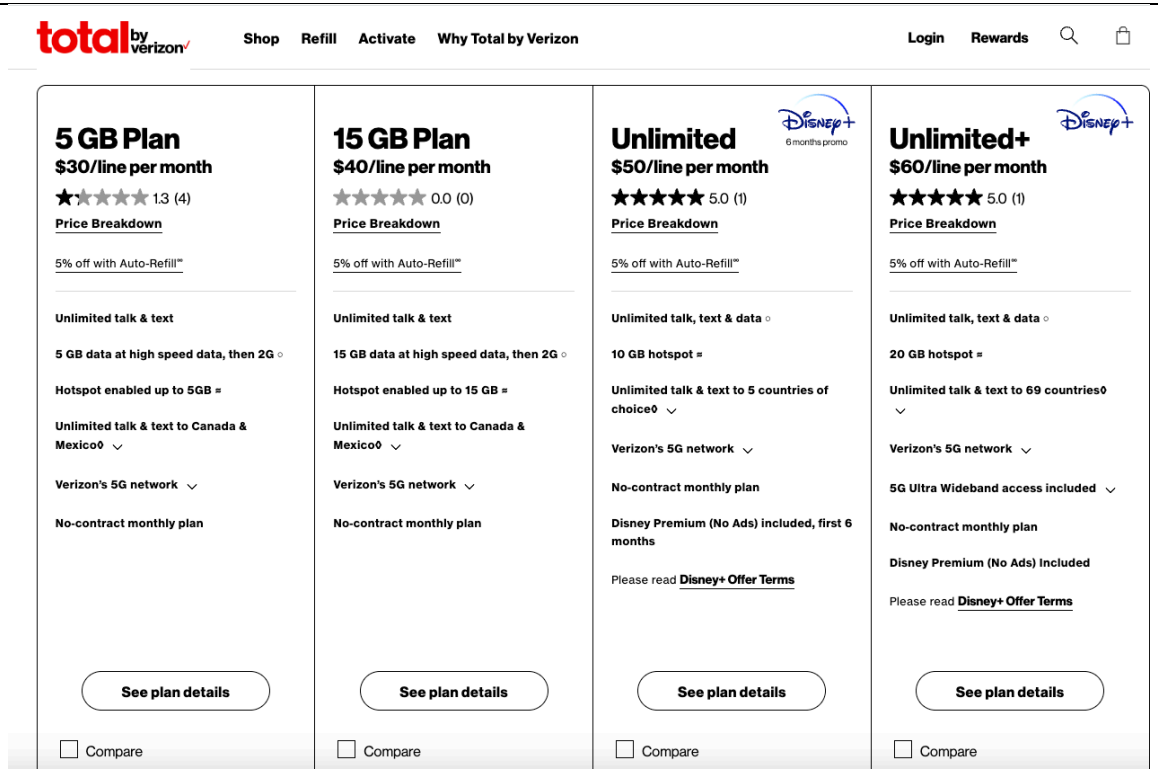
Accused Instrumentalities: smartphones, basic phones, tablets, laptops, and hotspot devices sold (including those sold in bundles with data plans) or used by Verizon in conjunction with Verizon's servers, hardware, software, and services leased, owned, supported, and/or operated by Verizon comprising Verizon's wireless network services, and all versions and variations thereof since the issuance of the asserted patent.

Claim 1

Issued Claim(s)	Public Documentation
[1a] A network service plan provisioning system communicatively coupled to a wireless end-user device over a wireless access network, the network service plan provisioning system comprising one or more network elements configured to:	To the extent the preamble is limiting, Verizon's Accused Instrumentalities comprise a network service plan provisioning system communicatively coupled to wireless end-user devices over a wireless access network, with the wireless access network comprising one or more network elements. Verizon offers telecommunications service plans to customers that are provided through various network elements such as telecommunications base stations and cell sites, edge servers, and other telecommunications servers. Verizon provides various network service plans to customers for purchase, including through the Verizon.com website as well as through Verizon-provided services such as its pre-paid mobile service category, Total By Verizon. *See, e.g.*:

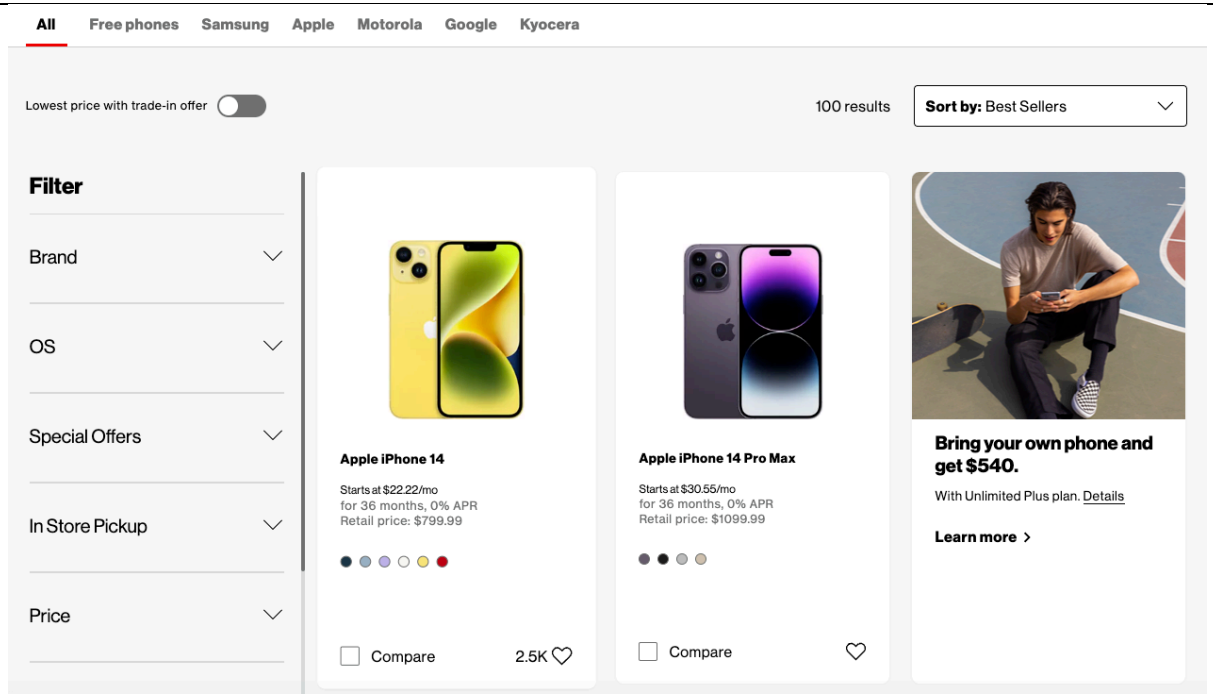


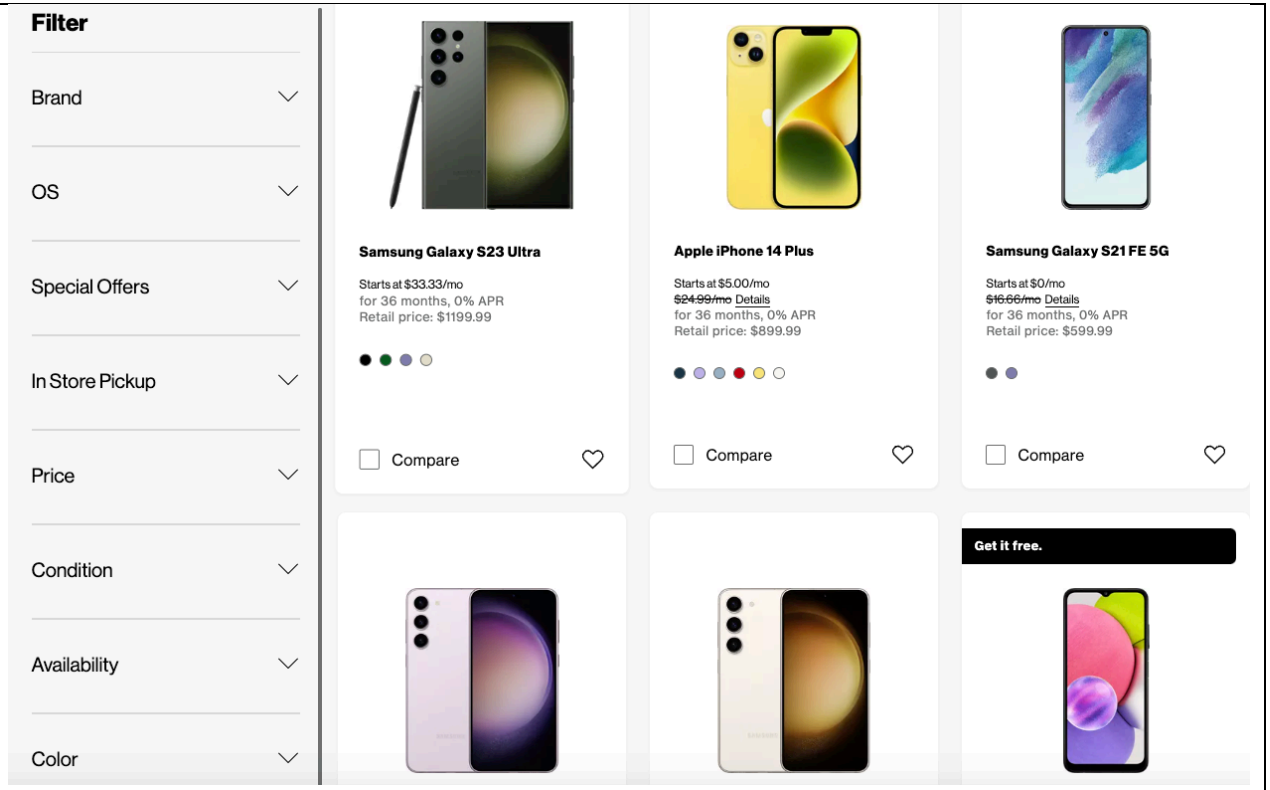
https://www.verizon.com/sales/digital/plans/popularplan.html?line=newLine1&mtnFlow=P



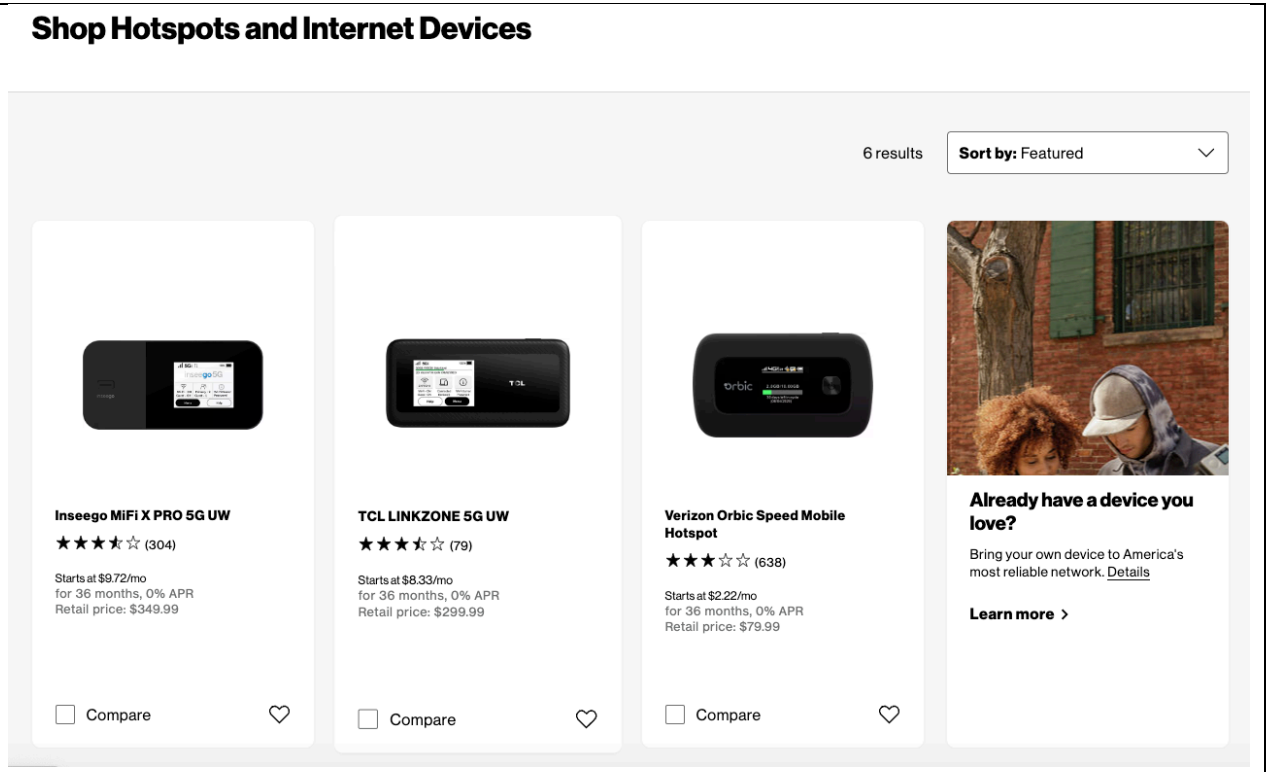
https://www.totalbyverizon.com/plans

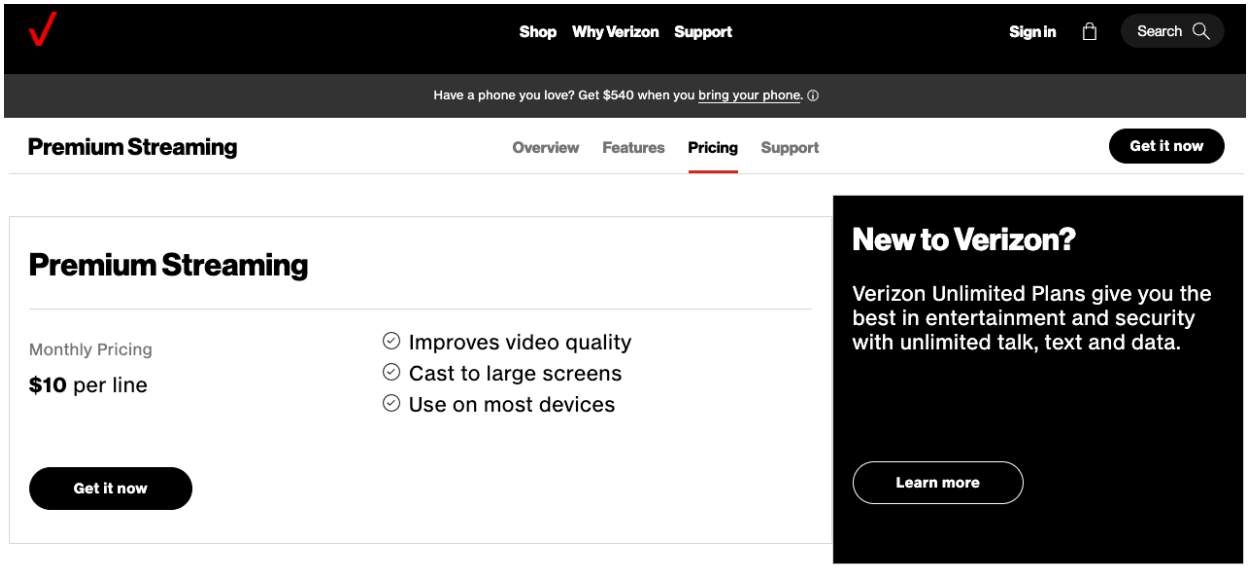
Verizon sells mobile devices such as phones, tablets, and hotspot access points which communicate with the Verizon wireless service network, which is a wireless access network. Such devices comprise end-user devices, as do devices which customers purchase elsewhere and "bring" to the Verizon network. *See, e.g.*:


All
Free phones
Samsung
Apple
Motorola
Google
Kyocera
Lowest price with trade-in offer
100 results
Sort by: Best Sellers
Filter
Brand
OS
Special Offers
In Store Pickup
Price
Apple iPhone 14
Starts at $22.22/mo
for 36 months, 0% APR
Retail price: $799.99
Compare
2.5K
Apple iPhone 14 Pro Max
Starts at $30.55/mo
for 36 months, 0% APR
Retail price: $1099.99
Compare
Bring your own phone and get $540.
With Unlimited Plus plan. Details
Learn more >

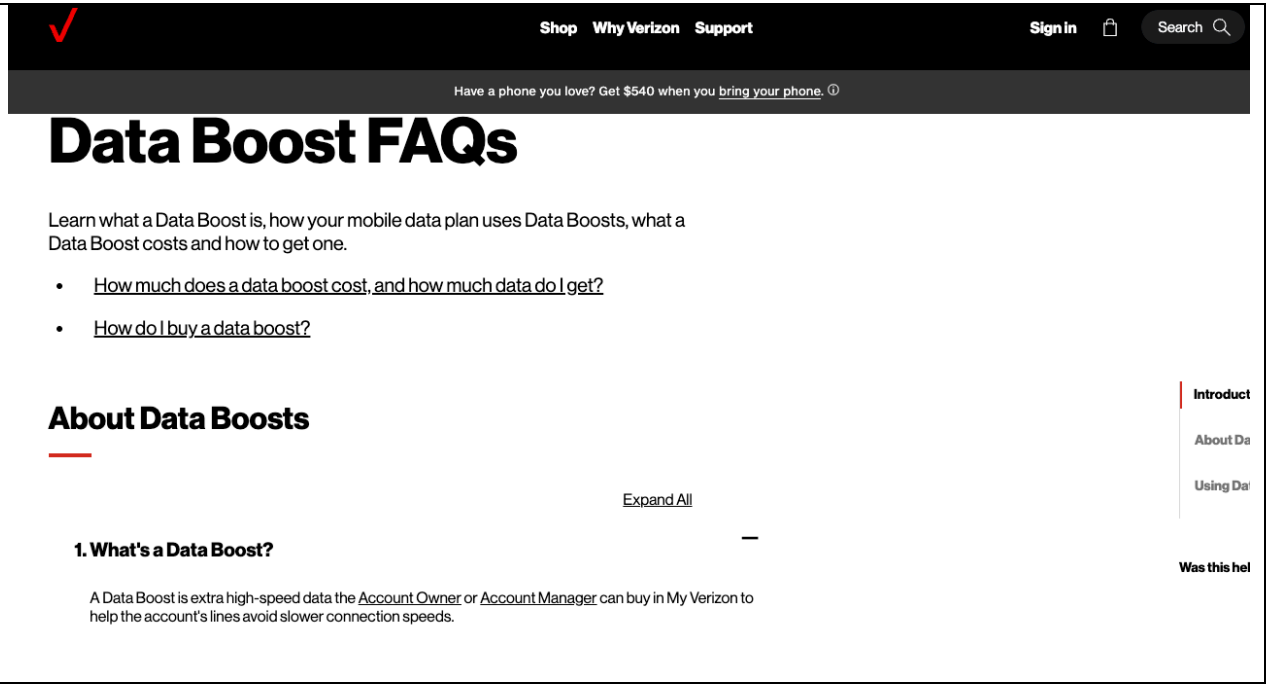


https://www.verizon.com/smartphones/?sort=best-sellers

	 https://www.verizon.com/internet-devices/
[1b] obtain and store a first service plan component and a second service plan component,	The Accused Instrumentalities obtain and store a first service plan component and a second service plan component. The devices of subscribers of Verizon's wireless network services may be provisioned with different service plans by Verizon's wireless access network, with each plan, for example, carrying data that is tracked and accounted for differently. The Accused Instrumentalities use different service plans to provide service, for example, to mobile hotspot devices, mobile phones and tablets provisioned with an "unlimited" data plan, mobile phones and tablets provisioned with a prepaid plan, mobile phones and tablets which for which the associated subscriber account has reached its allotted data limit for the service period, and mobile phones and tablets which are specifically communicating with Verizon servers to purchase or increase data allotments (e.g., a Verizon "Data Boost"). *See, e.g.*:



https://www.verizon.com/solutions-and-services/add-ons/entertainment/premium-streaming/#pricing


Shop
Why Verizon
Support
Sign in
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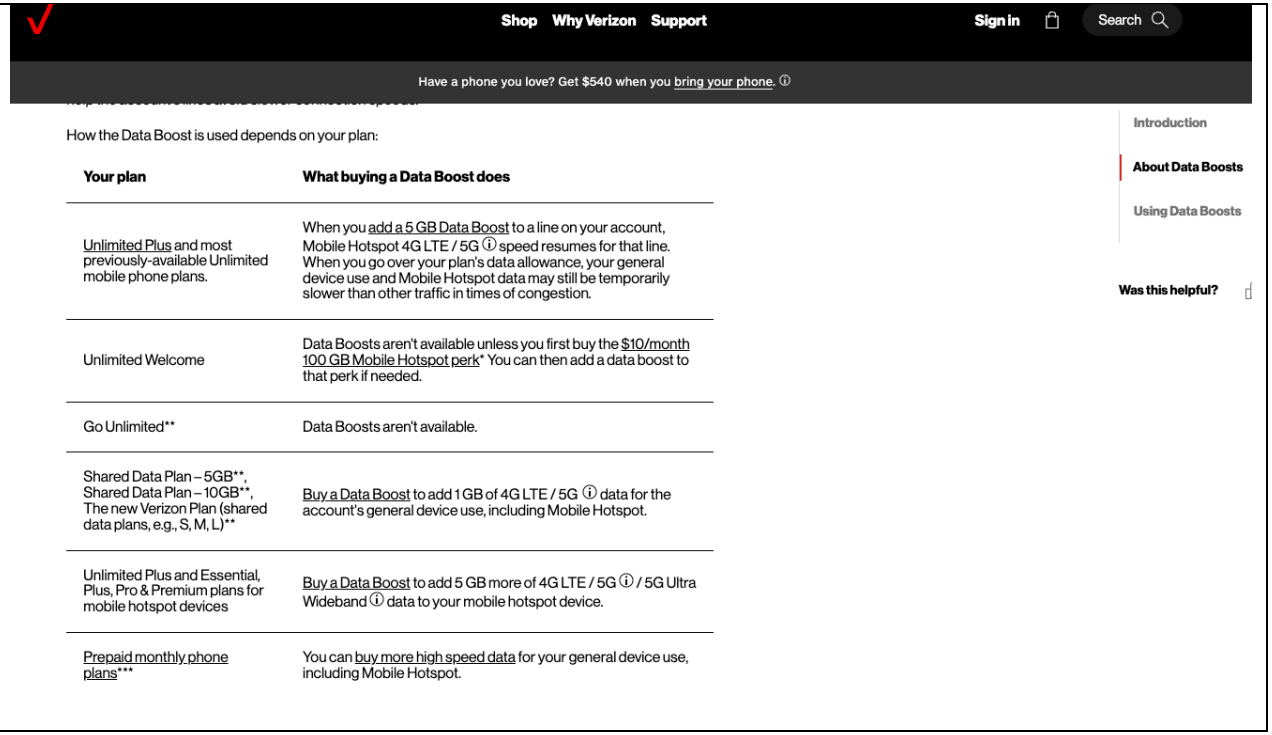
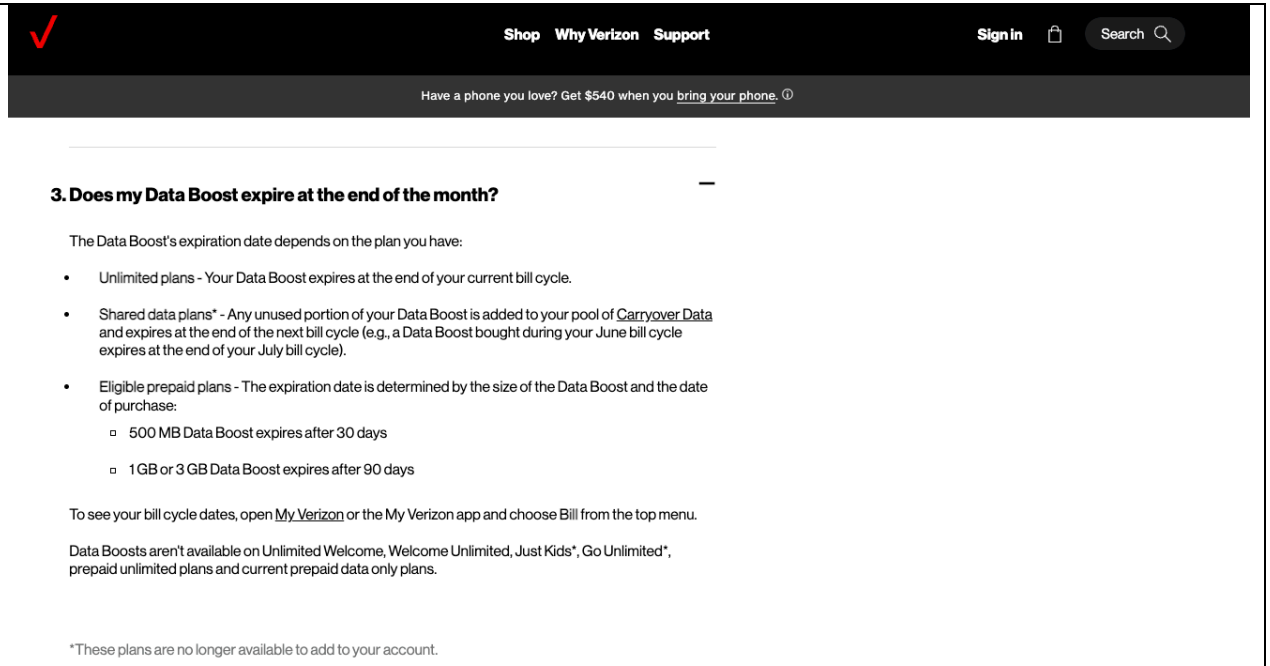
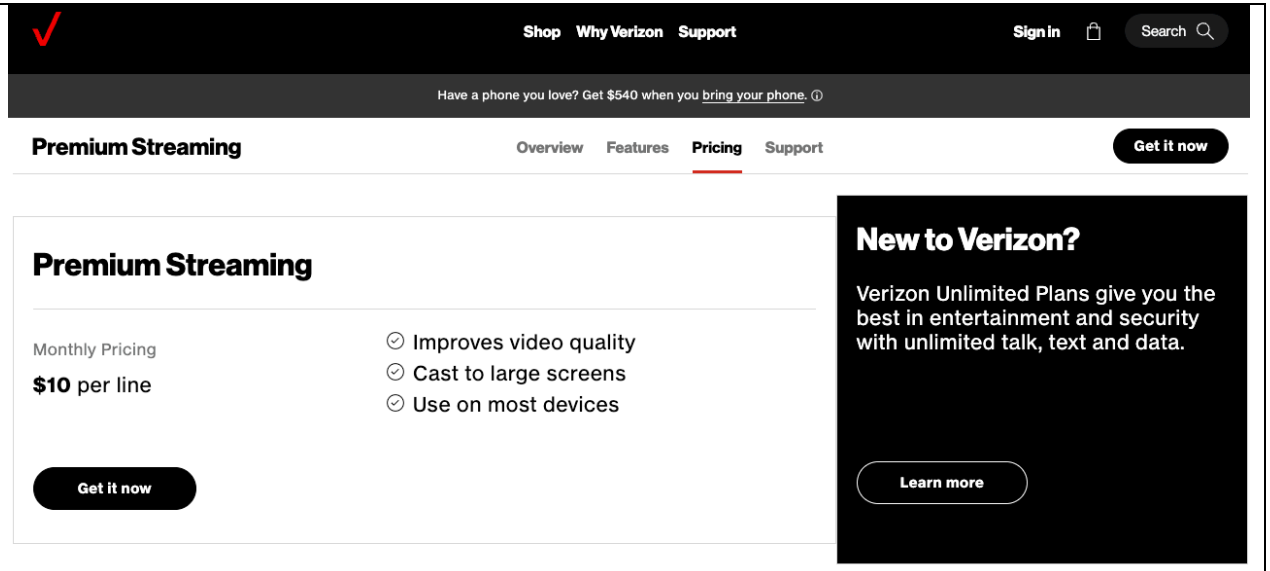
Have a phone you love? Get $540 when you bring your phone.
Data Boost FAQs
Learn what a Data Boost is, how your mobile data plan uses Data Boosts, what a Data Boost costs and how to get one.
How much does a data boost cost, and how much data do I get?
How do I buy a data boost?
About Data Boosts
Expand All
1. What's a Data Boost?
A Data Boost is extra high-speed data the Account Owner or Account Manager can buy in My Verizon to help the account's lines avoid slower connection speeds.
Introduct
About Da
Using Da
Was this hel

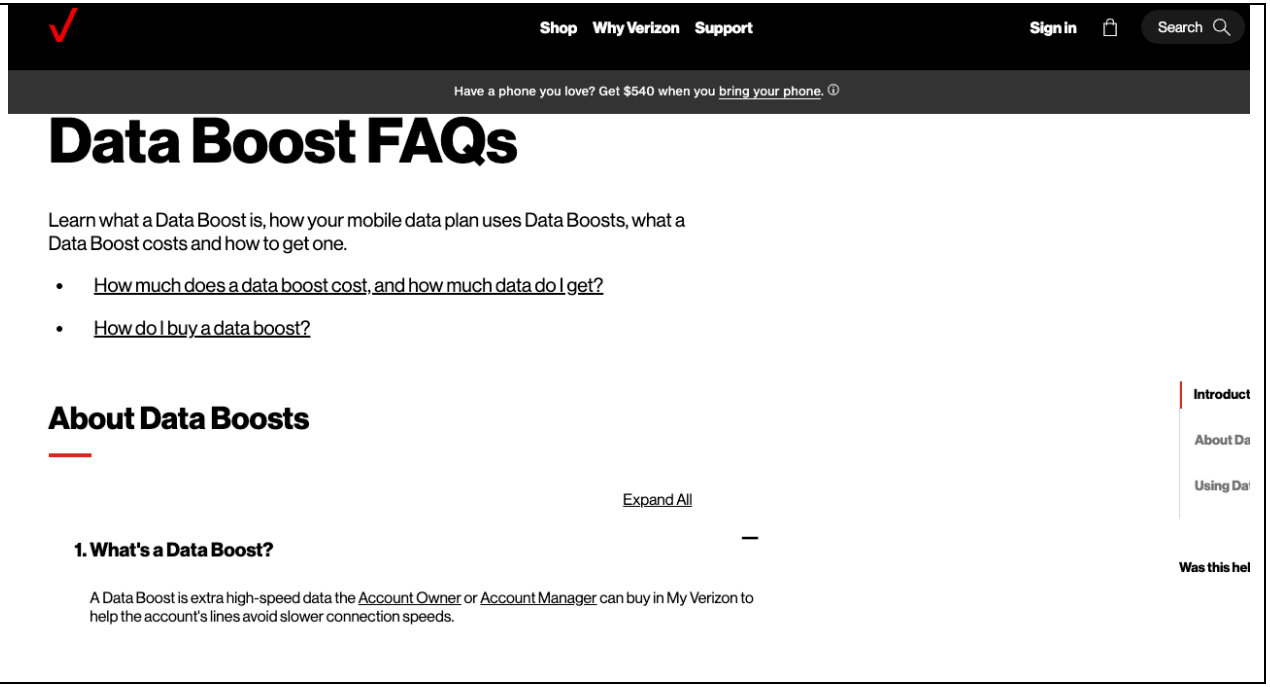


How the Data Boost is used depends on your plan:

Your plan	What buying a Data Boost does
Unlimited Plus and most previously-available Unlimited mobile phone plans.	When you add a 5 GB Data Boost to a line on your account, Mobile Hotspot 4G LTE / 5G ⓘ speed resumes for that line. When you go over your plan's data allowance, your general device use and Mobile Hotspot data may still be temporarily slower than other traffic in times of congestion.
Unlimited Welcome	Data Boosts aren't available unless you first buy the $10/month 100 GB Mobile Hotspot perk* You can then add a data boost to that perk if needed.
Go Unlimited**	Data Boosts aren't available.
Shared Data Plan – 5GB**, Shared Data Plan – 10GB**, The new Verizon Plan (shared data plans, e.g., S, M, L)**	Buy a Data Boost to add 1 GB of 4G LTE / 5G ⓘ data for the account's general device use, including Mobile Hotspot.
Unlimited Plus and Essential, Plus, Pro & Premium plans for mobile hotspot devices	Buy a Data Boost to add 5 GB more of 4G LTE / 5G ⓘ / 5G Ultra Wideband ⓘ data to your mobile hotspot device.
Prepaid monthly phone plans***	You can buy more high speed data for your general device use, including Mobile Hotspot.

	 https://www.verizon.com/support/data-boost-faqs/; https://www.verizon.com/support/important-plan-information/.
[1c] the first service plan component comprising (1) information specifying a first traffic classification filter for filtering a traffic event in a network traffic inspection system, the traffic event being associated with the wireless end-user device and (2) a first network policy enforcement action that is triggered in a network policy enforcement system when the traffic event possesses a characteristic that matches the first traffic classification filter, and the second service plan component comprising (a) information	The Accused Instrumentalities have "first service plan component[s]" "comprising (1) information specifying a first traffic classification filter for filtering a traffic event in a network traffic inspection system, the traffic event being associated with the wireless end-user device and (2) a first network policy enforcement action that is triggered in a network policy enforcement system when the traffic event possesses a characteristic that matches the first traffic classification filter." Examples of such first service plan components include, for example, special video streaming plans (e.g., Verizon Premium Streaming, https://www.verizon.com/solutions-and-services/add-ons/entertainment/premium-streaming/), hotspot data plans, and special network access rules for user devices when the devices attempt to purchase additional data from Verizon. *See, e.g.*:

specifying a second traffic classification [1d] filter for filtering the traffic event in the network traffic inspection system, and (b) a second network policy enforcement action that is triggered in the network policy enforcement system when the traffic event possesses a characteristic that matches the second traffic classification filter;	 https://www.verizon.com/solutions-and-services/add-ons/entertainment/premium-streaming/#pricing


Shop
Why Verizon
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Sign in
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Have a phone you love? Get $540 when you bring your phone.
Data Boost FAQs
Learn what a Data Boost is, how your mobile data plan uses Data Boosts, what a Data Boost costs and how to get one.
How much does a data boost cost, and how much data do I get?
How do I buy a data boost?
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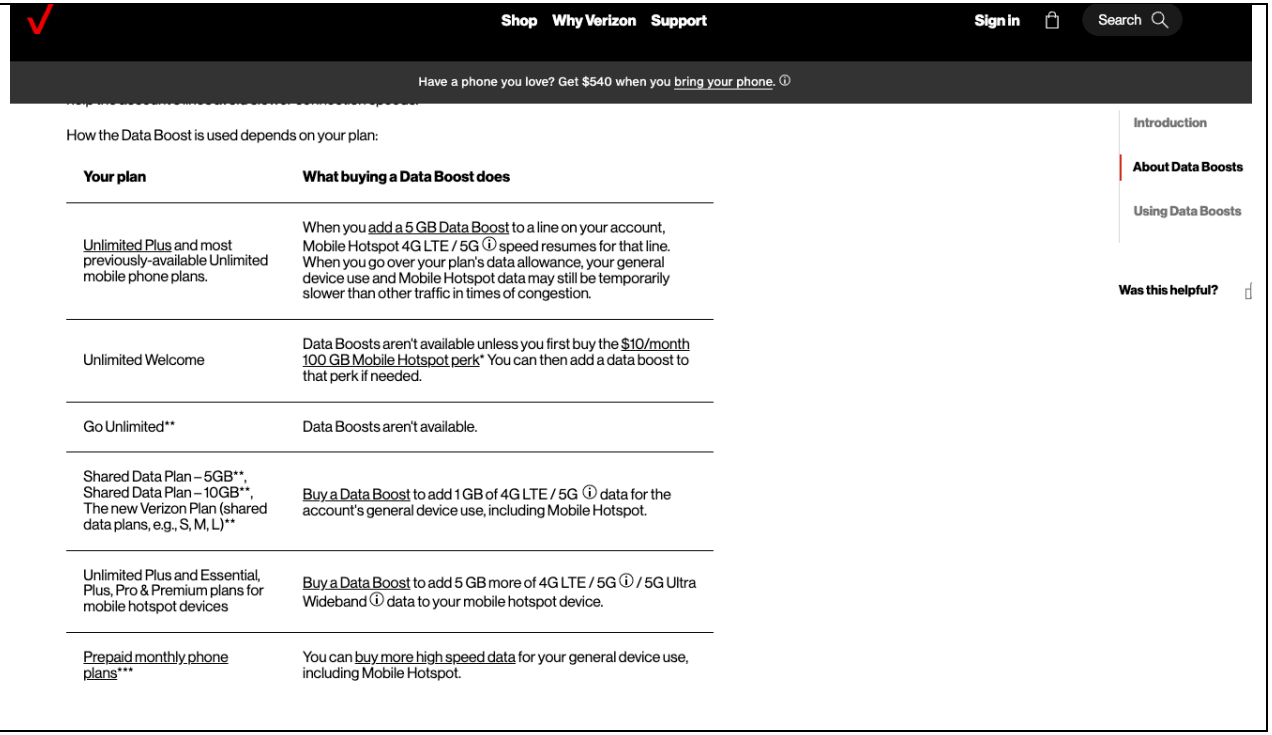

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Unlimited Plus and Essential, Plus, Pro & Premium plans for mobile hotspot devices	Buy a Data Boost to add 5 GB more of 4G LTE / 5G ⓘ / 5G Ultra Wideband ⓘ data to your mobile hotspot device.
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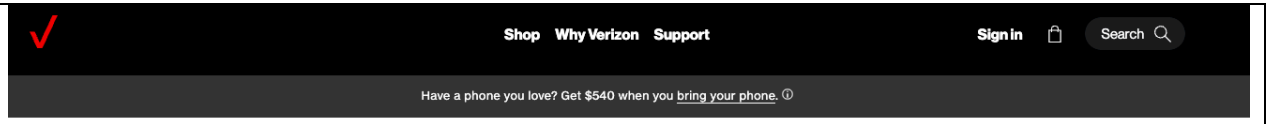


3. Does my Data Boost expire at the end of the month?

The Data Boost's expiration date depends on the plan you have:

- Unlimited plans - Your Data Boost expires at the end of your current bill cycle.
- Shared data plans* - Any unused portion of your Data Boost is added to your pool of Carryover Data and expires at the end of the next bill cycle (e.g., a Data Boost bought during your June bill cycle expires at the end of your July bill cycle).
- Eligible prepaid plans - The expiration date is determined by the size of the Data Boost and the date of purchase:
  - 500 MB Data Boost expires after 30 days
  - 1 GB or 3 GB Data Boost expires after 90 days

To see your bill cycle dates, open My Verizon or the My Verizon app and choose Bill from the top menu.

Data Boosts aren't available on Unlimited Welcome, Welcome Unlimited, Just Kids*, Go Unlimited*, prepaid unlimited plans and current prepaid data only plans.

*These plans are no longer available to add to your account.

https://www.verizon.com/support/data-boost-faqs/

Unlimited Plans for Smartphones

Unlimited Ultimate plan: Unlimited data is restricted to on-device smartphone usage. After exceeding 60 GB/mo of 5G Ultra Wideband, 5G or 4G LTE mobile hotspot data, mobile hotspot data reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE for the rest of your monthly billing cycle. After exceeding 10 GB/mo of high-speed international data, speeds reduced to up to 256 Kbps for the rest of your monthly billing cycle (available in 210+ countries and speeds depend on local network). Unlimited international calling and texting within a foreign country, and to the U.S. (available in 210+ countries). If more than 50% of your talk, text or data usage in a 60-day period is in countries other than the United States, use of those services in those countries may be removed or limited. Calls between foreign countries subject to Long Distance charges. Includes up to 300 calling minutes to one of 140 eligible countries you select from the Global Choice plan; overage rates apply and vary by country (see verizon.com/plans/international/international-calling/global-choice/ for details); and discounted calling to 220+ additional countries. Unlimited calls to Mexico and Canada from the U.S. 4K UHD Video Streaming available inside the 5G Ultra Wideband coverage area and 1080p HD Video Streaming available inside the 5G and 4G LTE coverage areas (must be turned on by customer in My Verizon online, the My Verizon App or by calling customer service; otherwise user will receive 720p HD Video Streaming inside the 5G Ultra Wideband coverage area and 480p SD Video Streaming inside the 5G and 4G LTE coverage areas).

Unlimited Plus plan: Unlimited data is restricted to on-device smartphone usage. After exceeding 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE mobile hotspot data, mobile hotspot data reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE for the rest of your monthly billing cycle. 4K UHD Video Streaming available on capable smartphones inside the 5G Ultra Wideband coverage area and 720p HD Video Streaming available inside the 5G and 4G LTE coverage areas (must be turned on by customer in My Verizon online, the My Verizon App or by calling customer service; otherwise user will receive 720p HD Video Streaming inside the 5G Ultra Wideband coverage area and 480p SD Video Streaming inside the 5G and 4G LTE coverage areas).

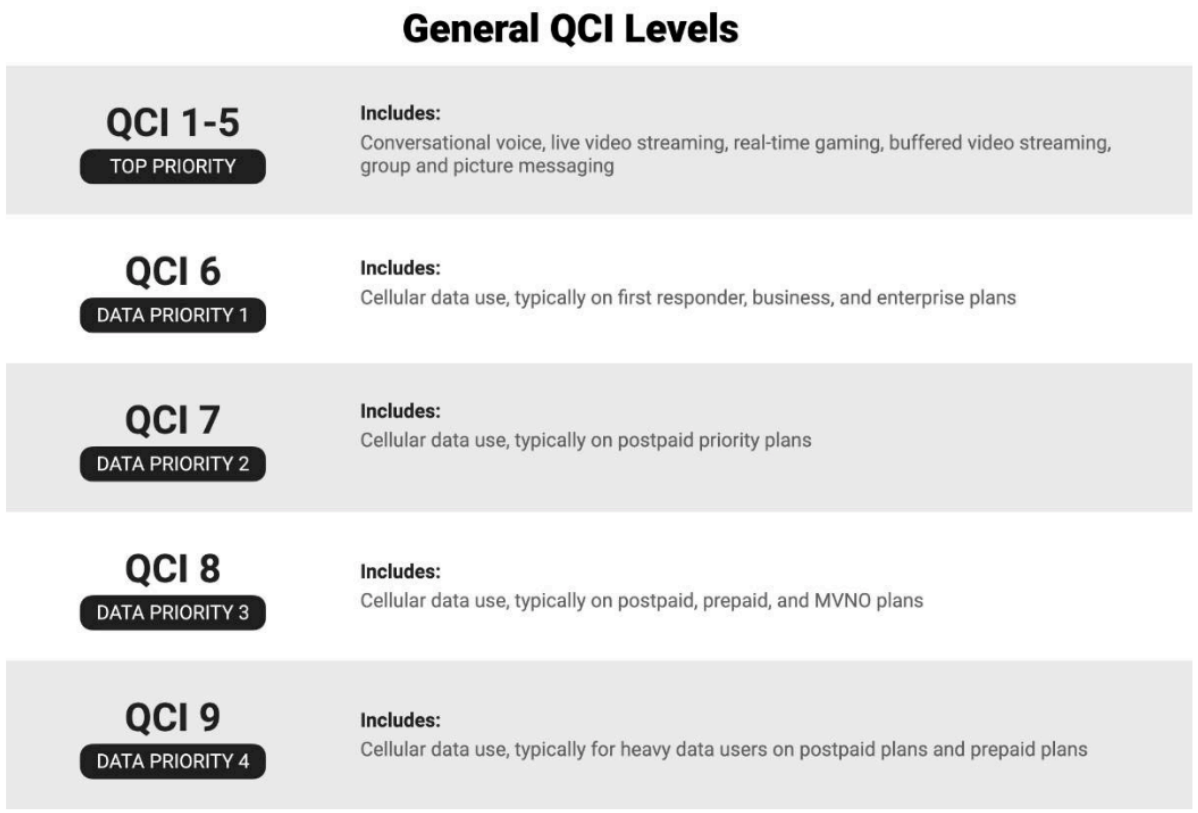
	Unlimited Welcome plan: During times of congestion, smartphone and mobile hotspot data (if purchased) on 5G or 4G LTE may be temporarily slower than other traffic. Speeds up to 25 Mbps when on 5G Ultra Wideband. 100GB mobile hotspot available for purchase; after exceeding mobile hotspot data allowance, mobile hotspot data speeds reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE. After exceeding 500 GB of smartphone data per month, smartphone data speeds reduced to up to 4 Mbps for the rest of your monthly billing cycle. 480p SD Video Streaming. 5G Ultra Wideband for mobile: Requires a 5G Ultra Wideband-capable device inside the 5G Ultra Wideband coverage area. Uploads may be over 5G and 4G LTE in lower signal strength conditions. Check your device to confirm whether it is fully compatible with Verizon's 5G Ultra Wideband network. 5G / 4G LTE for mobile: 5G requires a 5G compatible device. Devices manufactured before 2020 are not 5G compatible. You will receive 4G LTE when 5G isn't available. Other plan details: Domestic data roaming at 2G speeds; int'l data reduced to 3G (up to 1 Mbps) speeds after the first 2 GB/day. If more than 50% of your talk, text or data usage in a 60-day period is in Canada or Mexico, use of those services in those countries may be removed or limited. Android and KaiOS based voice-capable devices use 8-10 Mbs of data per month per line in order to comply with 911 emergency requirements that enable emergency services to identify a user's elevation (e.g., the floor on which the user is located within a multi-story building) and if your line is not subject to an active unlimited data plan, you may be billed for such use.

Connected Device Plans

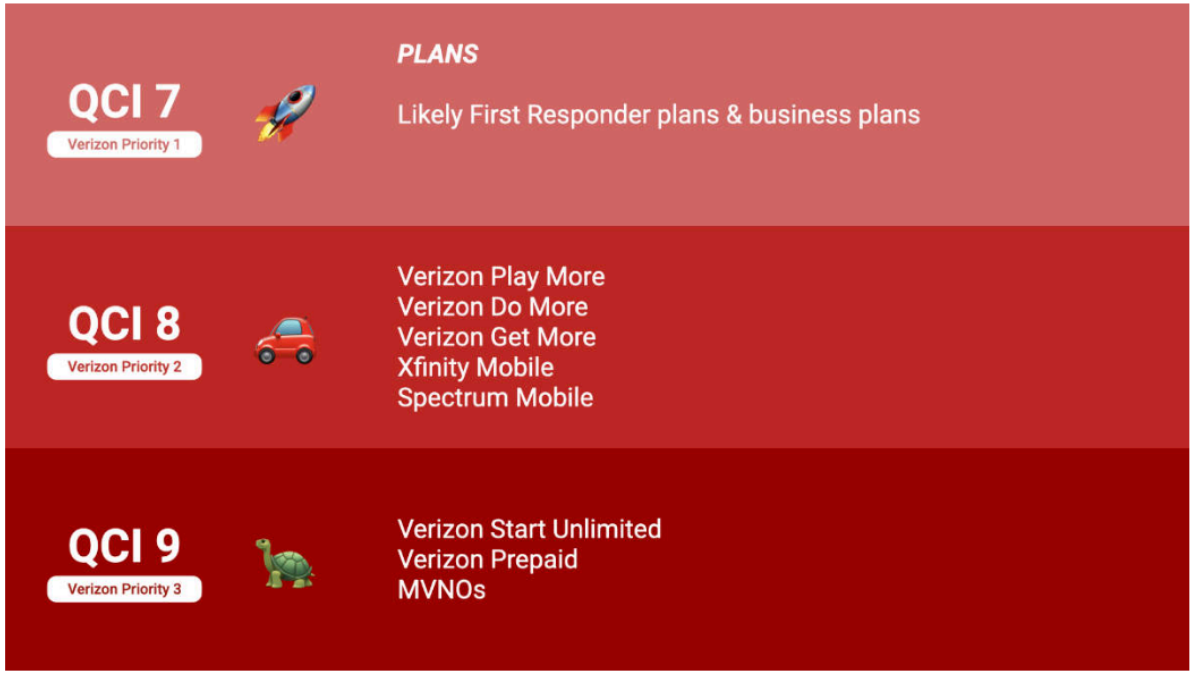
Tablets, laptops, smartwatches, Hum+, Humˣ, and security cameras: **5G Ultra Wideband**: (1) 5G Ultra Wideband requires a 5G Ultra Wideband capable device; (2) 5G Ultra Wideband access included with More Unlimited connected device plan for tablets and laptops; (3) uploads may be over 5G and 4G LTE in lower signal strength conditions (uploads over 5G Ultra Wideband, 5G, or 4G LTE will not count towards your data allowance, except for mobile hotspot data usage on tablets); (4) mobile hotspot/tethering for tablets on More Unlimited plan reduced to speeds up to 3 Mbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data); and (5) 4K UHD on capable tablets and laptops inside 5G Ultra Wideband coverage area on More Unlimited plan. **5G / 4G LTE:** (1) 5G requires a 5G compatible device (devices manufactured before 2020 are not compatible); (2) you will receive 4G LTE when 5G isn't available; (3) during times of congestion, data for tablets and mobile hotspot data on tablets and laptops may be temporarily slower than other traffic for the rest of your monthly billing cycle (only after 30GB/mo 5G or 4G LTE data on More Unlimited plan, and after 15GB/mo 5G or 4G LTE data on Unlimited plan); (4) data for laptops reduced to speeds up to 600 Kbps and may be temporarily slower than other traffic during times of congestion for the rest of your monthly billing cycle (only after 30GB/mo of 5G or 4G LTE data on More Unlimited plan, and after 15GB/mo of 5G or 4G LTE data on Unlimited plan); (5) data for smartwatches, Hum+ (including mobile hotspot data), Humˣ (including mobile hotspot data), and security cameras on Unlimited plan and Unlimited With In Car WiFi plan for Hum+ reduced to speeds up to 600 Kbps and may be temporarily slower than other traffic during times of congestion for the rest of your monthly billing cycle (only after 15GB/mo of 5G or 4G LTE data); (6) not available for machine-to-machine services; (7) mobile hotspot/tethering for tablets reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on More Unlimited plan, and after 15 GB/mo of 5G or 4G LTE data on Unlimited plan); (8) mobile hotspot/tethering for laptops reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G or 4G LTE data on More Unlimited plan, and after 15 GB/mo of 5G or 4G LTE data on Unlimited plan; (9) mobile hotspot/tethering for Hum+ and Humˣ reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 15GB/mo of 5G or 4G LTE data on Unlimited With In Car WiFi plan for Hum+ and Unlimited plan for Humˣ); (10) using mobile hotspot counts toward your monthly billing cycle 5G/4G LTE plan allocation for all connected devices except tablets; (11) domestic data roaming at 2G speeds; (12) no international roaming; and (13) video typically streams at 720p on compatible devices and up to 1080p on tablets.

	Mobile Hotspot devices, Connected Home devices, and USB Modems: **5G Ultra Wideband**: (1) 5G Ultra Wideband requires a 5G Ultra Wideband capable device; (2) 5G Ultra Wideband access included with Plus, Pro, and Premium plans; (3) 5G Ultra Wideband speeds reduced to speeds up to 3 Mbps for the rest of your monthly billing cycle only after: 50 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Plus plan; 100 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Pro Plan; and 150GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Premium plan; (4) uploads may be over 5G and 4G LTE in lower signal strength conditions; and (5) 4K UHD streaming on capable devices inside 5G Ultra Wideband coverage area on Plus, Pro, and Premium plans. **5G / 4G LTE**: (1) 5G requires a 5G compatible device (devices manufactured before 2020 are not compatible); (2) data reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 15GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Essential plan; 50 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Plus plan; 100 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Pro Plan; and 150GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on Premium plan); (3) not available for machine-to-machine services; (4) domestic data roaming at 2G speeds; (5) no international roaming; and (6) video typically streams at 720p on compatible devices. https://www.verizon.com/support/important-plan-information/ Service plans provided through the Accused Instrumentalities involve differentiating between different types of data traffic, including for example detecting and differentiating for data usage accounting purposes what data is used for video streaming at a user device, what data is used for hotspot or tethering purposes at a user device. Detection of different types of traffic by the Accused Instrumentalities result in the filtering of those traffic events in a network traffic inspection system. The Accused Instrumentalities further execute network policy enforcement actions in response to the detection of certain types of data traffic. As an example, the traffic classification filter for detecting a request from a user device to purchase additional data comprises a first traffic classification filter, and the traffic classification filter for detecting traffic not related to a user's request to purchase additional data comprises a second traffic classification filter. As another example, the traffic classification filter for detecting a device's request for streaming video data comprises a first traffic classification filter, and the traffic classification filter for detecting a device's request for non-video-streaming data comprises a second traffic classification filter.
[1e] process the first service plan component and the second service plan	The Accused Instrumentalities process service plan components to create a network provisioning instruction set in accordance with a prioritization of a first traffic classification

component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter, the network provisioning instruction set comprising one or more traffic inspection provisioning instructions for the network traffic inspection system and one or more policy enforcement provisioning instructions for the network policy enforcement system, the network traffic inspection system and the network policy enforcement system implementing one or more policies applicable to the wireless end-user device;	filter over a second traffic classification filter. As one example, the Accused Instrumentalities process various service plan components for a particular service plan for a subscriber, including the claimed first and second service plan components, to create network provisioning instructions defined by logic for prioritizing one traffic classification filter over another. For example, the Accused Instrumentalities utilize traffic inspection and other techniques to determine whether a user of a device connected to the wireless access network is requesting additional data to use on the wireless access network, and to further prioritize such data traffic as a part of the network provisioning instructions and to enforce their priority by, for example, specifically configuring the device to access the wireless access network for the purpose of purchasing additional data to use on the wireless access network. Another example of traffic classification filters which result in the network policy enforcement system causing policies to be applied to the user device would be the Accused Instrumentalities' traffic classification filters for inspecting traffic and detecting traffic related to video streaming and HD video streaming, which results in the network policy enforcement system implementing policies for setting maximum bandwidth for a particular traffic stream based on whether the subscriber account is configured by the Accused Instrumentalities as being allowed to stream HD video or not; if HD video streaming is permitted (e.g., the subscriber account has paid for a "Premium Streaming" add-on functionality), the traffic classification filter for detecting data traffic for HD streaming video is prioritized. As another example, the Accused Instrumentalities apply different access priority rules based on the type of subscriber account, where a first service plan component and a second service plan component may refer to the service plans of two different subscriber plans. As another example, a traffic classification filter for inspecting and detecting hotspot data is used to enforce the relatively lower levels of service priority that carriers, including Verizon, accord to hotspot data over other more data such as data used by accounts determined by the Accused Instrumentalities to be for "first responder" use. *See, e.g.*:



These are the general priority levels, illustrated in QCI values, used by T-Mobile, Verizon, and AT&T
https://www.bestphoneplans.net/news/data-priority



Verizon has three priority levels with their cell phone plans

https://www.bestphoneplans.net/news/data-priority

Verizon Wireless

Verizon Wireless has used sound engineering principles in the design and operation of its broadband network to ensure a good user experience for all customers. An individual user's experience will vary depending upon many factors, including the plan they select, the network (5G Ultra Wideband, 5G Nationwide or 4G LTE) the customer is using and the device in use.

Verizon Wireless has implemented optimization technologies across its 5G Nationwide and 4G LTE networks to transmit data files in a more efficient manner to allow available network capacity to benefit the greatest number of users. These techniques include video caching and sizing video files more appropriately for mobile devices. The optimization process is agnostic as to the content itself and to the website that provides it. While Verizon Wireless invests much effort to avoid changing text, image, and video files in the optimization process and while any change to the file is likely to be indiscernible, the optimization process may minimally impact the appearance of the file as displayed on a customer's device.

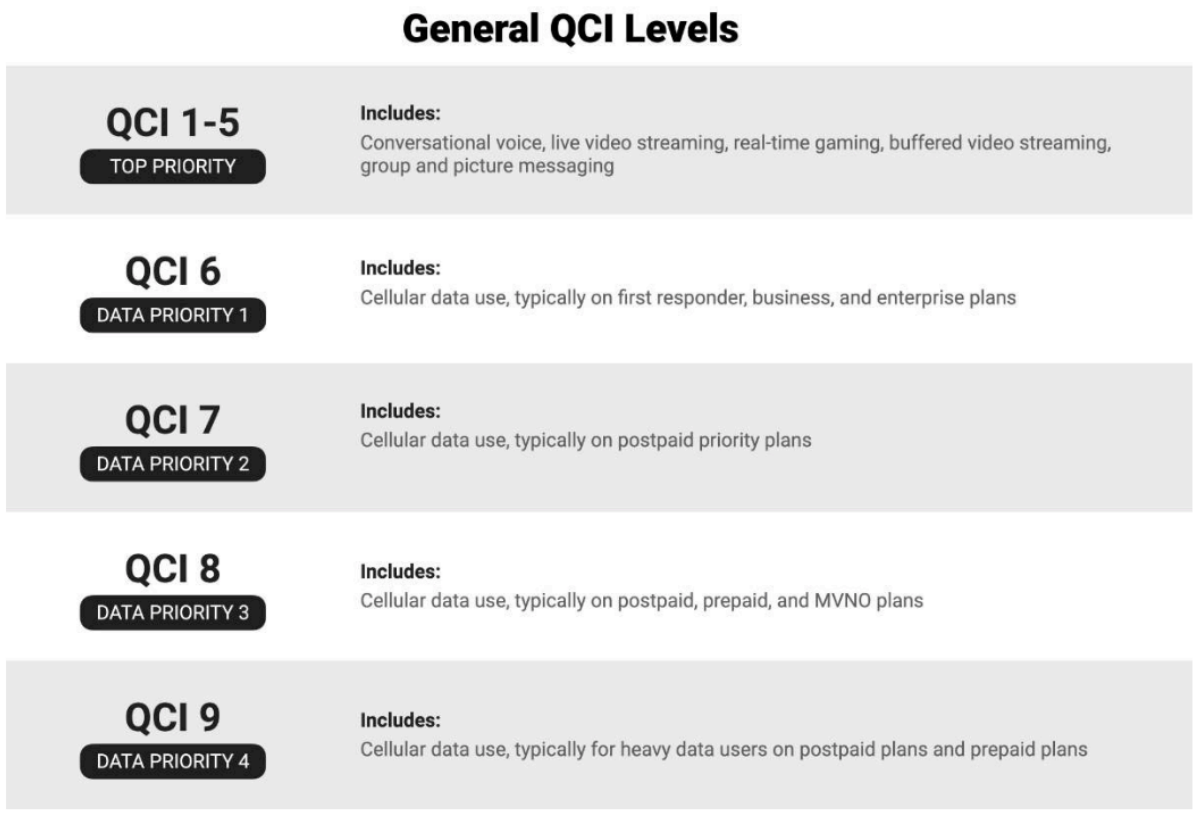
In addition, in order to optimize customers' video viewing experiences on their devices over our 5G Nationwide and 4G LTE networks while ensuring a high quality experience for other users of the network, Verizon seeks to transmit video downloads or streams to smartphones at 480p or 720p, depending on the plan, to devices with larger screens at 1080p, and on the LTE Home Internet plan to 1080p, unless a different video resolution is disclosed in the description of a particular plan. This practice does not make any distinction based on the content of the video or the source website. To achieve this optimization, Verizon limits the throughput speeds of such video downloads or streams over our 5G Nationwide and 4G LTE networks (which may be below the 9-56 Mbps 5G Nationwide and 4G LTE download speeds typically provided). This practice results in the video provider's content server sending the appropriate resolution video file for that speed, if available.

On certain plans, we may prioritize your 5G Nationwide and 4G LTE data behind other traffic. If the cell site you are connected to begins experiencing high demand during the duration of your session, your 5G Nationwide and 4G LTE data speeds may be slower than the other traffic's. Once the demand on the site lessens, or if you connect to a different site not experiencing high demand, your speed will return to normal. Any such network management practices will be disclosed in the descriptions of impacted plans.

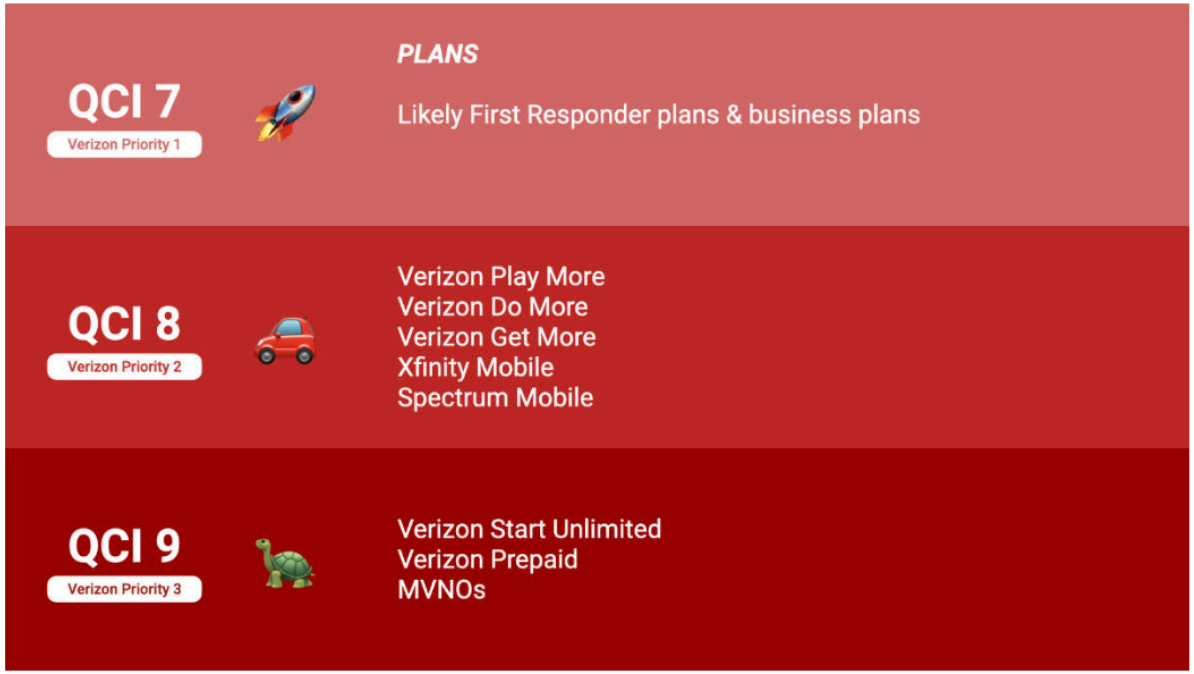
https://www.verizon.com/about/our-company/network-management?CMP=afc_m_p_cj_na_ot_2022_99&SID=&cjevent=8b4b2b48048511ee81e5020e0a1cb826&vendorid=CJM&PID=9230628&AID=11365093; https://www.verizon.com/support/important-plan-information/.

On information and belief, the Accused Instrumentalities specifically transmit traffic control-related instructions to mobile devices in the wireless access network based on type of traffic, type of subscriber plan, and priority levels for types of data and/or subscriber account type based on the Accused Instrumentalities' inspection of traffic to and from the device and the account associated with the device. *See, e.g.*:

	Support › Apple › Apple iPhone 15 **Apple iPhone - Update Carrier Settings** **NOTE** • Carrier settings updates are small files that are installed on iOS devices. The carrier settings include updates to Access Point Names (APNs), MMS settings, features like tethering and default apps. Having the most up to date carrier settings is recommended for the proper functionality of the device. • Apple® Watch® Series 3 users must be on Carrier Bundle 29.1 or higher (check on your iPhone® via **Settings › General › About › Carrier**). For more info on how to check carrier and / or update your Carrier version, refer to Updating Your Carrier Settings 1. From a Home screen on your **Settings** › **General**. → If unavailable, swipe left to access the App Library. → If a carrier settings update is available, you're presented with an option to update. 2. Tap **About**. → If an update is available, an option appears to update. → To view the current carrier info, refer to View Carrier. https://www.verizon.com/support/knowledge-base-212894/
[1f] provide the one or more traffic inspection provisioning instructions to the network traffic inspection system; and	The Accused Instrumentalities provide the one or more traffic provisioning instructions to the network traffic inspection system. As an example, the Accused Instrumentalities, by providing a traffic inspection provisioning instruction, cause and enable the traffic inspection system to inspect traffic to detect certain types of traffic and events, such as a user device attempting to use data for streaming video, HD streaming video, hotspot or tethering usage, and to purchase additional data. *See, e.g.*:



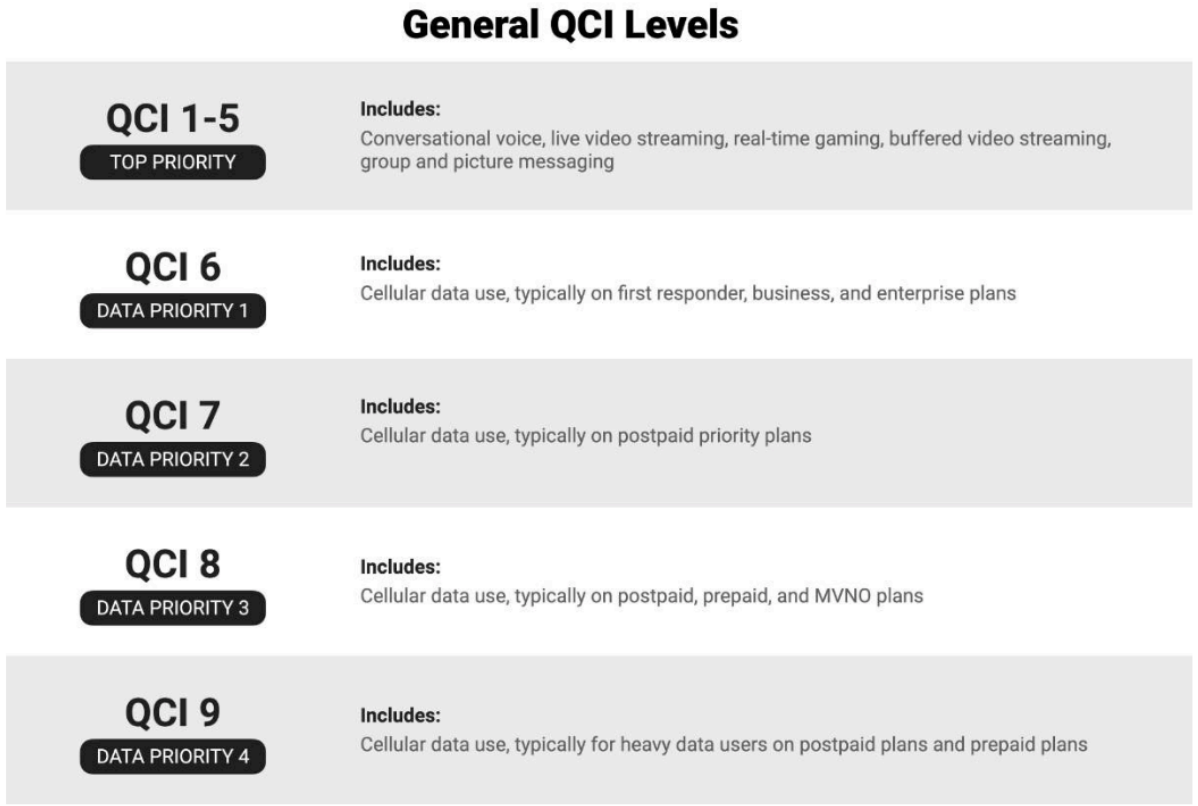
These are the general priority levels, illustrated in QCI values, used by T-Mobile, Verizon, and AT&T
https://www.bestphoneplans.net/news/data-priority



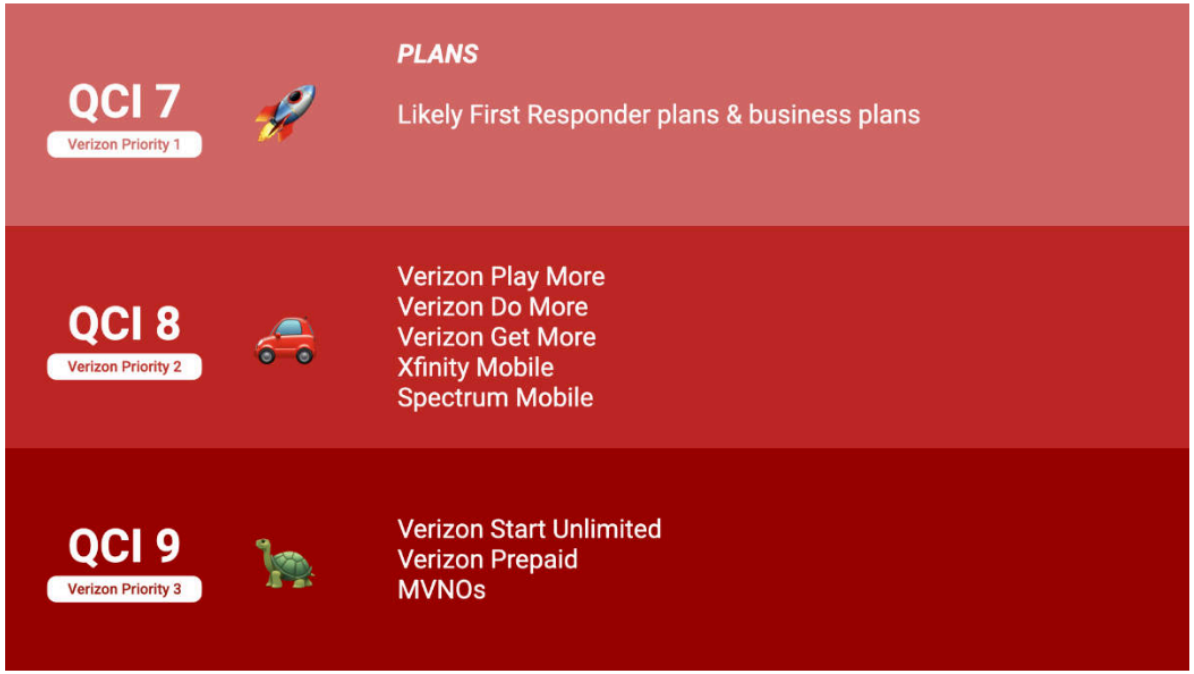
Verizon has three priority levels with their cell phone plans

https://www.bestphoneplans.net/news/data-priority

	 **Verizon Wireless** Verizon Wireless has used sound engineering principles in the design and operation of its broadband network to ensure a good user experience for all customers. An individual user's experience will vary depending upon many factors, including the plan they select, the network (5G Ultra Wideband, 5G Nationwide or 4G LTE) the customer is using and the device in use. Verizon Wireless has implemented optimization technologies across its 5G Nationwide and 4G LTE networks to transmit data files in a more efficient manner to allow available network capacity to benefit the greatest number of users. These techniques include video caching and sizing video files more appropriately for mobile devices. The optimization process is agnostic as to the content itself and to the website that provides it. While Verizon Wireless invests much effort to avoid changing text, image, and video files in the optimization process and while any change to the file is likely to be indiscernible, the optimization process may minimally impact the appearance of the file as displayed on a customer's device. In addition, in order to optimize customers' video viewing experiences on their devices over our 5G Nationwide and 4G LTE networks while ensuring a high quality experience for other users of the network, Verizon seeks to transmit video downloads or streams to smartphones at 480p or 720p, depending on the plan, to devices with larger screens at 1080p, and on the LTE Home Internet plan to 1080p, unless a different video resolution is disclosed in the description of a particular plan. This practice does not make any distinction based on the content of the video or the source website. To achieve this optimization, Verizon limits the throughput speeds of such video downloads or streams over our 5G Nationwide and 4G LTE networks (which may be below the 9-56 Mbps 5G Nationwide and 4G LTE download speeds typically provided). This practice results in the video provider's content server sending the appropriate resolution video file for that speed, if available. On certain plans, we may prioritize your 5G Nationwide and 4G LTE data behind other traffic. If the cell site you are connected to begins experiencing high demand during the duration of your session, your 5G Nationwide and 4G LTE data speeds may be slower than the other traffic's. Once the demand on the site lessens, or if you connect to a different site not experiencing high demand, your speed will return to normal. Any such network management practices will be disclosed in the descriptions of impacted plans. https://www.verizon.com/about/our-company/network-management?CMP=afc_m_p_cj_na_ot_2022_99&SID=&cjevent=8b4b2b48048511ee81e5020e0a1cb826&vendorid=CJM&PID=9230628&AID=11365093; https://www.verizon.com/support/important-plan-information/.
[1g] provide the one or more policy enforcement provisioning instructions to the network policy enforcement system.	The Accused Instrumentalities provide the one or more policy enforcement provisioning instructions to the network policy enforcement system. As an example, the Accused Instrumentalities, by providing a policy enforcement provisioning instruction to the network policy enforcement system, is able to implement traffic control and traffic shaping techniques, including for instance throttling certain kinds of traffic (e.g., throttling video streaming), capping certain kinds of data usage (e.g., setting and applying a data cap on hotspot and tethering data usage), and prioritizing certain types of preferred data usage (e.g., communicating with the Accused Instrumentalities' servers to purchase additional data). *See, e.g.*:



These are the general priority levels, illustrated in QCI values, used by T-Mobile, Verizon, and AT&T
https://www.bestphoneplans.net/news/data-priority



Verizon has three priority levels with their cell phone plans

https://www.bestphoneplans.net/news/data-priority

	 **Verizon Wireless** Verizon Wireless has used sound engineering principles in the design and operation of its broadband network to ensure a good user experience for all customers. An individual user's experience will vary depending upon many factors, including the plan they select, the network (5G Ultra Wideband, 5G Nationwide or 4G LTE) the customer is using and the device in use. Verizon Wireless has implemented optimization technologies across its 5G Nationwide and 4G LTE networks to transmit data files in a more efficient manner to allow available network capacity to benefit the greatest number of users. These techniques include video caching and sizing video files more appropriately for mobile devices. The optimization process is agnostic as to the content itself and to the website that provides it. While Verizon Wireless invests much effort to avoid changing text, image, and video files in the optimization process and while any change to the file is likely to be indiscernible, the optimization process may minimally impact the appearance of the file as displayed on a customer's device. In addition, in order to optimize customers' video viewing experiences on their devices over our 5G Nationwide and 4G LTE networks while ensuring a high quality experience for other users of the network, Verizon seeks to transmit video downloads or streams to smartphones at 480p or 720p, depending on the plan, to devices with larger screens at 1080p, and on the LTE Home Internet plan to 1080p, unless a different video resolution is disclosed in the description of a particular plan. This practice does not make any distinction based on the content of the video or the source website. To achieve this optimization, Verizon limits the throughput speeds of such video downloads or streams over our 5G Nationwide and 4G LTE networks (which may be below the 9-56 Mbps 5G Nationwide and 4G LTE download speeds typically provided). This practice results in the video provider's content server sending the appropriate resolution video file for that speed, if available. On certain plans, we may prioritize your 5G Nationwide and 4G LTE data behind other traffic. If the cell site you are connected to begins experiencing high demand during the duration of your session, your 5G Nationwide and 4G LTE data speeds may be slower than the other traffic's. Once the demand on the site lessens, or if you connect to a different site not experiencing high demand, your speed will return to normal. Any such network management practices will be disclosed in the descriptions of impacted plans. https://www.verizon.com/about/our-company/network-management?CMP=afc_m_p_cj_na_ot_2022_99&SID=&cjevent=8b4b2b48048511ee81e5020e0a1cb826&vendorid=CJM&PID=9230628&AID=11365093; https://www.verizon.com/support/important-plan-information/.
2. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises order traffic inspection comparison operations in the one or more	The Accused Instrumentalities comprise "network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises order traffic inspection comparison operations in the one or more traffic inspection provisioning instructions such that the one or more traffic inspection provisioning instructions direct the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter before determining whether the traffic event possesses the characteristic that matches the second traffic classification filter."

traffic inspection provisioning instructions such that the one or more traffic inspection provisioning instructions direct the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter before determining whether the traffic event possesses the characteristic that matches the second traffic classification filter.	*See*, for example, the disclosures identified for claim 1. As a further example, the Accused Instrumentalities apply different access priority rules based on the type of subscriber account, where a first service plan component and a second service plan component may refer to the service plans of two different subscriber plans to order subscribers into various priorities, such as "top priority" or "QCI" level. As another example, a traffic classification filter for inspecting and detecting hotspot data is used to enforce the relatively lower levels of service priority that carriers, including Verizon, accord to hotspot data over other more data such as data used by accounts determined by the Accused Instrumentalities to be for "first responder" use.
3. The network service plan provisioning system of claim 2, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter further comprises include in the network provisioning instruction set one or more instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the second traffic classification filter only if the traffic event does not possess the characteristic that matches the first traffic classification filter.	The Accused Instrumentalities comprise "network service plan provisioning system of claim 2, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter further comprises include in the network provisioning instruction set one or more instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the second traffic classification filter only if the traffic event does not possess the characteristic that matches the first traffic classification filter." *See*, for example, the disclosures identified for claims 1-2. As a further example, the Accused Instrumentalities apply different access priority rules based on the type of subscriber account, where a first service plan component and a second service plan component may refer to the service plans of two different subscriber plans into various priorities based on characteristics that match certain filters, but not others.
4. The network service plan provisioning system of claim 2, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the	The Accused Instrumentalities comprise "network service plan provisioning system of claim 2, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter further comprises include in the network provisioning instruction set one or more instructions directing the network traffic inspection system to determine whether the traffic event also possesses the characteristic that

first traffic classification filter over the second traffic classification filter further comprises include in the network provisioning instruction set one or more instructions directing the network traffic inspection system to determine whether the traffic event also possesses the characteristic that matches the second traffic classification filter if the traffic event possesses the characteristic that matches the first traffic classification filter.	matches the second traffic classification filter if the traffic event possesses the characteristic that matches the first traffic classification filter." *See*, for example, the disclosures identified for claims 1-2. As a further example, the Accused Instrumentalities apply different access priority rules based on the type of subscriber account, where a first service plan component and a second service plan component may refer to the service plans of two different subscriber plans into various priorities based on characteristics that match more than one filter.
5. The network service plan provisioning system of claim 1, further comprising:	The Accused Instrumentalities comprise "network service plan provisioning system of claim 1." *See*, for example, the disclosures identified for claim 1.
[5a] a policy enforcement priority rule datastore including a policy enforcement priority rule for determining whether the traffic event possesses the characteristic that matches the first traffic classification filter before determining whether the traffic event possesses the characteristic that matches the second traffic classification filter,	The Accused Instrumentalities comprise "a policy enforcement priority rule datastore including a policy enforcement priority rule for determining whether the traffic event possesses the characteristic that matches the first traffic classification filter before determining whether the traffic event possesses the characteristic that matches the second traffic classification filter." *See*, for example, the disclosures identified for claims 1-2.
[5b] and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include the policy enforcement priority rule in the network provisioning instruction set.	The Accused Instrumentalities comprise "wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include the policy enforcement priority rule in the network provisioning instruction set." *See*, for example, the disclosures identified for claims 1-3.

6. The network service plan provisioning system of claim 5, wherein the policy enforcement priority rule comprises a priority order for a plurality of traffic classification filters, the plurality of traffic classification filters including the first traffic classification filter and the second traffic classification filter.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 5, wherein the policy enforcement priority rule comprises a priority order for a plurality of traffic classification filters, the plurality of traffic classification filters including the first traffic classification filter and the second traffic classification filter." *See*, for example, the disclosures identified for claim 5. As a further example, the Accused Instrumentalities comprise a plurality of filters (e.g., QCI1 through QCI9) with rules that comprise a priority order for the plurality of filters.
7. The network service plan provisioning system of claim 5, wherein the policy enforcement priority rule comprises a priority specification for one or both of the first service plan component and the second service plan component.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 5, wherein the policy enforcement priority rule comprises a priority specification for one or both of the first service plan component and the second service plan component." *See*, for example, the disclosures identified for claim 5.
8. The network service plan provisioning system of claim 1, wherein at least one of the one or more policies is dependent on a network state.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein at least one of the one or more policies is dependent on a network state." *See*, for example, the disclosures identified for claim 1. As a further example, the Accused Instrumentalities comprise policies which are dependent on network states (e.g. congestion, and/or roaming). *See, e.g.,* https://www.verizon.com/support/troubleshooting-wireless-signal-coverage-video/; https://www.verizon.com/support/important-plan-information/: Unlimited Welcome plan: During times of congestion, smartphone and mobile hotspot data (if purchased) on 5G or 4G LTE may be temporarily slower than other traffic. Speeds up to 25 Mbps when on 5G Ultra Wideband. 100GB mobile hotspot available for purchase; after exceeding mobile hotspot data allowance, mobile hotspot data speeds reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE. After exceeding 500 GB of smartphone data per month, smartphone data speeds reduced to up to 4 Mbps for the rest of your monthly billing cycle. 480p SD Video Streaming.

	Connected Device Plans Tablets, laptops, smartwatches, Hum+, Humˣ, and security cameras: **5G Ultra Wideband**: (1) 5G Ultra Wideband requires a 5G Ultra Wideband capable device; (2) 5G Ultra Wideband access included with More Unlimited connected device plan for tablets and laptops; (3) uploads may be over 5G and 4G LTE in lower signal strength conditions (uploads over 5G Ultra Wideband, 5G, or 4G LTE will not count towards your data allowance, except for mobile hotspot data usage on tablets); (4) mobile hotspot/tethering for tablets on More Unlimited plan reduced to speeds up to 3 Mbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data); and (5) 4K UHD on capable tablets and laptops inside 5G Ultra Wideband coverage area on More Unlimited plan. **5G / 4G LTE:** (1) 5G requires a 5G compatible device (devices manufactured before 2020 are not compatible); (2) you will receive 4G LTE when 5G isn't available; (3) during times of congestion, data for tablets and mobile hotspot data on tablets and laptops may be temporarily slower than other traffic for the rest of your monthly billing cycle (only after 30GB/mo 5G or 4G LTE data on More Unlimited plan, and after 15GB/mo 5G or 4G LTE data on Unlimited plan); (4) data for laptops reduced to speeds up to 600 Kbps and may be temporarily slower than other traffic during times of congestion for the rest of your monthly billing cycle (only after 30GB/mo of 5G or 4G LTE data on More Unlimited plan, and after 15GB/mo of 5G or 4G LTE data on Unlimited plan); (5) data for smartwatches, Hum+ (including mobile hotspot data), Humˣ (including mobile hotspot data), and security cameras on Unlimited plan and Unlimited With In Car WiFi plan for Hum+ reduced to speeds up to 600 Kbps and may be temporarily slower than other traffic during times of congestion for the rest of your monthly billing cycle (only after 15GB/mo of 5G or 4G LTE data); (6) not available for machine-to-machine services; (7) mobile hotspot/tethering for tablets reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on More Unlimited plan, and after 15 GB/mo of 5G or 4G LTE data on Unlimited plan); (8) mobile hotspot/tethering for laptops reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G or 4G LTE data on More Unlimited plan, and after 15 GB/mo of 5G or 4G LTE data on Unlimited plan; (9) mobile hotspot/tethering for Hum+ and Humˣ reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 15GB/mo of 5G or 4G LTE data on Unlimited With In Car WiFi plan for Hum+ and Unlimited plan for Humˣ); (10) using mobile hotspot counts toward your monthly billing cycle 5G/4G LTE plan allocation for all connected devices except tablets; (11) domestic data roaming at 2G speeds; (12) no international roaming; and (13) video typically streams at 720p on compatible devices and up to 1080p on tablets.
9. The network service plan provisioning system of claim 8, wherein the network state comprises a congestion state of the wireless access network, a network	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 8, wherein the network state comprises a congestion state of the wireless access network, a network location, a type of the wireless access network, whether the wireless access

location, a type of the wireless access network, whether the wireless access network is a roaming network, a routing identifier associated with the wireless access network, or a combination of these.	network is a roaming network, a routing identifier associated with the wireless access network, or a combination of these." *See*, for example, the disclosures identified for claims 1 and 8. As a further example, the Accused Instrumentalities comprise network states, e.g. congestion state , network location, roaming, and/or routing identifiers. *See, e.g.,* https://www.verizon.com/support/troubleshooting-wireless-signal-coverage-video/; https://www.verizon.com/support/important-plan-information/: **Unlimited Plans for Smartphones** Unlimited Ultimate plan: Unlimited data is restricted to on-device smartphone usage. After exceeding 60 GB/mo of 5G Ultra Wideband, 5G or 4G LTE mobile hotspot data, mobile hotspot data reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE for the rest of your monthly billing cycle. After exceeding 10 GB/mo of high-speed international data, speeds reduced to up to 256 Kbps for the rest of your monthly billing cycle (available in 210+ countries and speeds depend on local network). Unlimited international calling and texting within a foreign country, and to the U.S. (available in 210+ countries). If more than 50% of your talk, text or data usage in a 60-day period is in countries other than the United States, use of those services in those countries may be removed or limited. Calls between foreign countries subject to Long Distance charges. Includes up to 300 calling minutes to one of 140 eligible countries you select from the Global Choice plan; overage rates apply and vary by country (see verizon.com/plans/international/international-calling/global-choice/ for details); and discounted calling to 220+ additional countries. Unlimited calls to Mexico and Canada from the U.S. 4K UHD Video Streaming available inside the 5G Ultra Wideband coverage area and 1080p HD Video Streaming available inside the 5G and 4G LTE coverage areas (must be turned on by customer in My Verizon online, the My Verizon App or by calling customer service; otherwise user will receive 720p HD Video Streaming inside the 5G Ultra Wideband coverage area and 480p SD Video Streaming inside the 5G and 4G LTE coverage areas). Unlimited Plus plan: Unlimited data is restricted to on-device smartphone usage. After exceeding 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE mobile hotspot data, mobile hotspot data reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE for the rest of your monthly billing cycle. 4K UHD Video Streaming available on capable smartphones inside the 5G Ultra Wideband coverage area and 720p HD Video Streaming available inside the 5G and 4G LTE coverage areas (must be turned on by customer in My Verizon online, the My Verizon App or by calling customer service; otherwise user will receive 720p HD Video Streaming inside the 5G Ultra Wideband coverage area and 480p SD Video Streaming inside the 5G and 4G LTE coverage areas).

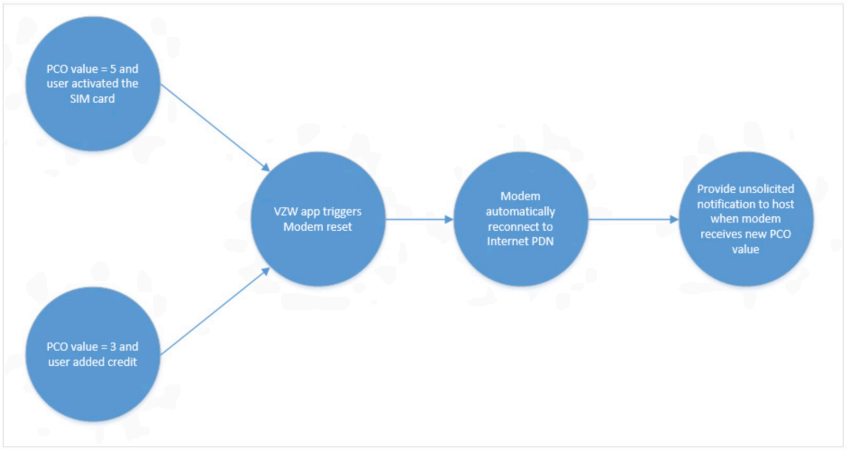
	Unlimited Welcome plan: During times of congestion, smartphone and mobile hotspot data (if purchased) on 5G or 4G LTE may be temporarily slower than other traffic. Speeds up to 25 Mbps when on 5G Ultra Wideband. 100GB mobile hotspot available for purchase; after exceeding mobile hotspot data allowance, mobile hotspot data speeds reduced to speeds up to 3 Mbps when on 5G Ultra Wideband and 600 Kbps when on 5G / 4G LTE. After exceeding 500 GB of smartphone data per month, smartphone data speeds reduced to up to 4 Mbps for the rest of your monthly billing cycle. 480p SD Video Streaming.

Connected Device Plans

Tablets, laptops, smartwatches, Hum^{+}, Hum^{X}, and security cameras: **5G Ultra Wideband**: (1) 5G Ultra Wideband requires a 5G Ultra Wideband capable device; (2) 5G Ultra Wideband access included with More Unlimited connected device plan for tablets and laptops; (3) uploads may be over 5G and 4G LTE in lower signal strength conditions (uploads over 5G Ultra Wideband, 5G, or 4G LTE will not count towards your data allowance, except for mobile hotspot data usage on tablets); (4) mobile hotspot/tethering for tablets on More Unlimited plan reduced to speeds up to 3 Mbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data); and (5) 4K UHD on capable tablets and laptops inside 5G Ultra Wideband coverage area on More Unlimited plan. **5G / 4G LTE:** (1) 5G requires a 5G compatible device (devices manufactured before 2020 are not compatible); (2) you will receive 4G LTE when 5G isn't available; (3) during times of congestion, data for tablets and mobile hotspot data on tablets and laptops may be temporarily slower than other traffic for the rest of your monthly billing cycle (only after 30GB/mo 5G or 4G LTE data on More Unlimited plan, and after 15GB/mo 5G or 4G LTE data on Unlimited plan); (4) data for laptops reduced to speeds up to 600 Kbps and may be temporarily slower than other traffic during times of congestion for the rest of your monthly billing cycle (only after 30GB/mo of 5G or 4G LTE data on More Unlimited plan, and after 15GB/mo of 5G or 4G LTE data on Unlimited plan); (5) data for smartwatches, Hum^{+} (including mobile hotspot data), Hum^{X} (including mobile hotspot data), and security cameras on Unlimited plan and Unlimited With In Car WiFi plan for Hum^{+} reduced to speeds up to 600 Kbps and may be temporarily slower than other traffic during times of congestion for the rest of your monthly billing cycle (only after 15GB/mo of 5G or 4G LTE data); (6) not available for machine-to-machine services; (7) mobile hotspot/tethering for tablets reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G Ultra Wideband, 5G, or 4G LTE data on More Unlimited plan, and after 15 GB/mo of 5G or 4G LTE data on Unlimited plan); (8) mobile hotspot/tethering for laptops reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 30 GB/mo of 5G or 4G LTE data on More Unlimited plan, and after 15 GB/mo of 5G or 4G LTE data on Unlimited plan; (9) mobile hotspot/tethering for Hum^{+} and Hum^{X} reduced to speeds up to 600 Kbps for the rest of your monthly billing cycle (only after 15GB/mo of 5G or 4G LTE data on Unlimited With In Car WiFi plan for Hum^{+} and Unlimited plan for Hum^{X}); (10) using mobile hotspot counts toward your monthly billing cycle 5G/4G LTE plan allocation for all connected devices except tablets; (11) domestic data roaming at 2G speeds; (12) no international roaming; and (13) video typically streams at 720p on compatible devices and up to 1080p on tablets.

	Other plan details: Domestic data roaming at 2G speeds; int'l data reduced to 3G (up to 1 Mbps) speeds after the first 2 GB/day. If more than 50% of your talk, text or data usage in a 60-day period is in Canada or Mexico, use of those services in those countries may be removed or limited. Android and KaiOS based voice-capable devices use 8-10 Mbs of data per month per line in order to comply with 911 emergency requirements that enable emergency services to identify a user's elevation (e.g., the floor on which the user is located within a multi-story building) and if your line is not subject to an active unlimited data plan, you may be billed for such use.
10. The network service plan provisioning system of claim 9, wherein the congestion state is based on a time of day, a measure of network congestion, a measure of a delay, a measure of a jitter, a packet error rate, or a combination of these.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 9, wherein the congestion state is based on a time of day, a measure of network congestion, a measure of a delay, a measure of a jitter, a packet error rate, or a combination of these." *See*, for example, the disclosures identified for claims 1, and 8-9.
11. The network service plan provisioning system of claim 5, wherein the one or more network elements are further configured to provide a user interface for a service plan design environment that provides for entering the policy enforcement priority rule in the design environment by entering a priority assignment for the first service plan component, entering a priority assignment for the second service plan component, positioning the first and second service plan components in a priority ordering, defining the first or second service plan component as belonging to a service type that has an implied or literal ordering, or a combination of these.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 5, wherein the one or more network elements are further configured to provide a user interface for a service plan design environment that provides for entering the policy enforcement priority rule in the design environment by entering a priority assignment for the first service plan component, entering a priority assignment for the second service plan component, positioning the first and second service plan components in a priority ordering, defining the first or second service plan component as belonging to a service type that has an implied or literal ordering, or a combination of these." *See*, for example, the disclosures identified for claims 1, and 8-9. On information and belief, the Accused Instrumentalities are configured to provide a user interface for a service plan design environment that provides for entering the policy enforcement priority rule in the design environment by entering a priority assignment for service plan components, ordering, and/or grouping to define filters and logic to implement those rules on traffic as shown by the exemplary citations in claims 1 and 8-9 above.

12. The network service plan provisioning system of claim 1, wherein the information specifying the first traffic classification filter comprises an inspection criterion selected from a group of inspection criteria consisting of: specific device application, a specific network destination, a specific network source, a specific traffic type, a specific content type, a specific traffic protocol, and a combination of two or more of the inspection criteria.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the information specifying the first traffic classification filter comprises an inspection criterion selected from a group of inspection criteria consisting of: specific device application, a specific network destination, a specific network source, a specific traffic type, a specific content type, a specific traffic protocol, and a combination of two or more of the inspection criteria." *See*, for example, the disclosures identified for claims 1, and 8-9. As a further example, the information specifying traffic classification filters comprises inspection criterion such as plan level, plan type, plan feature, and/or plan option (e.g., Personal or Business, Unlimited Plus, Unlimited Welcome, Postpaid, Prepaid, Mobile Hotspot, Data Boost, Premium Streaming, etc.), as well as subscriber type (e.g., first responder, business, enterprise, personal, MVNO, etc.), usage type (voice, video, gaming, messaging, etc.), usage level (e.g., heavy data users), content type (video, messaging, voice, etc.).
13. The network service plan provisioning system of claim 1, wherein the first or second policy enforcement action is an action selected from a group of actions consisting of: apply a traffic control policy; apply a service usage accounting, charging, or billing policy; apply a service notification policy; and a combination of two or more of the actions.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the first or second policy enforcement action is an action selected from a group of actions consisting of: apply a traffic control policy; apply a service usage accounting, charging, or billing policy; apply a service notification policy; and a combination of two or more of the actions." *See*, for example, the disclosures identified for claims 1, and 8-9. As a further example, the policy enforcement actions such as reducing data speeds, account for/bill for additional data and account features, notify users regarding their usage, etc.
15. The network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to include in the network provisioning instruction set an instruction to assist in enforcing a classification-based charging policy, wherein the classification is selected from the group of classification categories consisting of: application,	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to include in the network provisioning instruction set an instruction to assist in enforcing a classification-based charging policy, wherein the classification is selected from the group of classification categories consisting of: application, destination, network, time of day, congestion state, quality of service, content type, and a combination of two or more of the classification categories." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.

destination, network, time of day, congestion state, quality of service, content type, and a combination of two or more of the classification categories.	
16. The network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to include in the network provisioning instruction set an instruction to assist in presenting a service buy page notification with an actionable response.	The Accused Instrumentalities comprise "the one or more network elements are further configured to include in the network provisioning instruction set an instruction to assist in presenting a service buy page notification with an actionable response." *See, e.g.*: **Resetting the modem based on PCO values** Based on PCO values received from the network, the modem will be reset in the following scenarios: • The user completed self-activation after receiving PCO = 5 from the network. A new PCO value (3, 0 or anything Mobile Operator App can recognize) will be sent to the OS and the OS will pass it to Mobile Operator App. • The user added more credit to their account after receiving PCO = 3. A new PCO value (0, or anything Mobile Operator App can recognize) will be sent to the OS and the OS will pass it to Mobile Operator App. The host is not aware of the modem being reset, so the activated connections from the host will not be deactivated and the modem should automatically re-establish connection with those PDN after resetting. Upon establishing connection and receiving a new incoming PCO value from the network, the modem will provide an unsolicited NDIS_STATUS_WWAN_PCO_STATUS notification to the host. The following diagram illustrates the modem's reset flow when one of these scenarios occurs, with Verizon Wireless as the example MO:  https://learn.microsoft.com/en-us/windows-hardware/drivers/network/mb-protocol-configuration-options-pco-operations

21. The network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to facilitate reuse of the first service plan component, the second service plan component, the first traffic classification filter, the second traffic classification filter, the first policy enforcement action, or the second policy enforcement action in a plurality of service plans by storing the first service plan component, the second service plan component, the first traffic classification filter, the second traffic classification filter, the first policy enforcement action, and the second policy enforcement action as one or more objects in a catalog.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to facilitate reuse of the first service plan component, the second service plan component, the first traffic classification filter, the second traffic classification filter, the first policy enforcement action, or the second policy enforcement action in a plurality of service plans by storing the first service plan component, the second service plan component, the first traffic classification filter, the second traffic classification filter, the first policy enforcement action, and the second policy enforcement action as one or more objects in a catalog." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
22. The network service plan provisioning system of claim 1, wherein the first service plan component further comprises an additional policy enforcement action to augment the first policy enforcement action, and wherein the second service plan component further comprises the additional policy enforcement action to augment the second policy enforcement action.	The Accused Instrumentalities comprise "the first service plan component further comprises an additional policy enforcement action to augment the first policy enforcement action, and wherein the second service plan component further comprises the additional policy enforcement action to augment the second policy enforcement action." For example, the service plan components comprise an additional policy enforcement action that throttles data when high-speed data usage for the service period exceeds the limit under the subscription plan whether the traffic event possesses a characteristic that matches the first or second traffic classification filter. *See* claim 1.
23. The network service plan provisioning system of claim 1, wherein the first service plan component further comprises an additional policy enforcement action to over-ride the first policy enforcement action, and wherein the second service plan component further comprises the additional policy	The Accused Instrumentalities comprise "the first service plan component further comprises an additional policy enforcement action to over-ride the first policy enforcement action, and wherein the second service plan component further comprises the additional policy enforcement action to over-ride the second policy enforcement action." For example, the service plan components comprise an additional policy enforcement action that throttles data when high-speed data usage for the service period exceeds the limit under the subscription plan whether the traffic event possesses a characteristic that matches the first or second traffic classification filter. *See* claim 1.

enforcement action to over-ride the second policy enforcement action.	
28. The network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to obtain service plan parameters for multiple service plans, combine one or more service policies for the multiple service plans into one composite-plan policy set, and provision the network policy enforcement system to enforce the composite policies for the multiple service plans.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the one or more network elements are further configured to obtain service plan parameters for multiple service plans, combine one or more service policies for the multiple service plans into one composite-plan policy set, and provision the network policy enforcement system to enforce the composite policies for the multiple service plans." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
30. The network service plan provisioning system of claim 1, wherein the first service plan component is associated with a first priority, and wherein the second service plan component is associated with a second priority, the second priority being lower than the first priority, and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include in the network provisioning instruction set one or more first instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter and to determine whether the traffic event possesses the	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the first service plan component is associated with a first priority, and wherein the second service plan component is associated with a second priority, the second priority being lower than the first priority, and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include in the network provisioning instruction set one or more first instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter and to determine whether the traffic event possesses the characteristic that matches the second traffic classification filter, and one or more second instructions directing the network policy enforcement system to enforce the first network policy enforcement action when the traffic event possesses both the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.

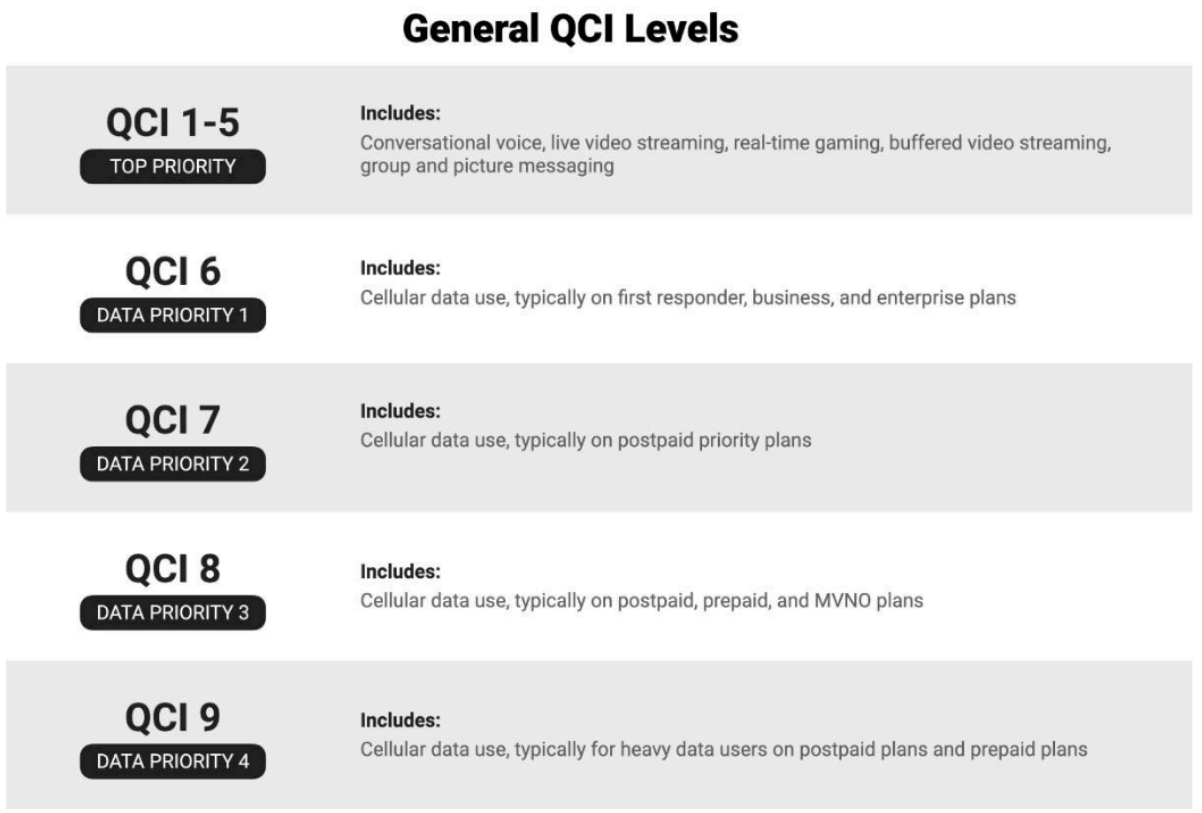
characteristic that matches the second traffic classification filter, and one or more second instructions directing the network policy enforcement system to enforce the first network policy enforcement action when the traffic event possesses both the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter.	
31. The network service plan provisioning system of claim 1, wherein the first service plan component is associated with a first priority, and wherein the second service plan component is associated with a second priority, the second priority being lower than the first priority, and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include in the network provisioning instruction set one or more first instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter, and one or more second instructions directing the network policy enforcement system to enforce only the first network policy enforcement action when the traffic event possesses	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the first service plan component is associated with a first priority, and wherein the second service plan component is associated with a second priority, the second priority being lower than the first priority, and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include in the network provisioning instruction set one or more first instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter, and one or more second instructions directing the network policy enforcement system to enforce only the first network policy enforcement action when the traffic event possesses the characteristic that matches the first traffic classification filter." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.

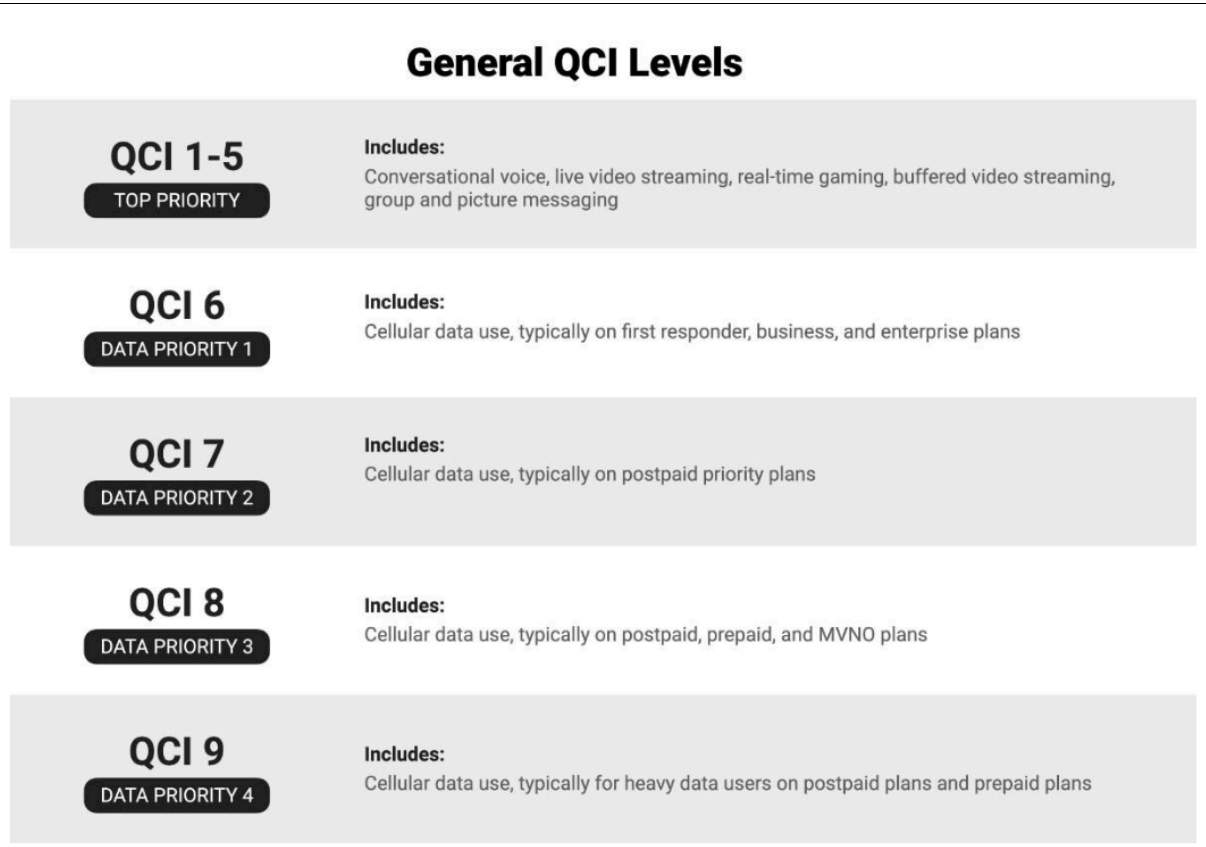
the characteristic that matches the first traffic classification filter.	
32. The network service plan provisioning system of claim 1, wherein the first service plan component is associated with a first priority, and wherein the second service plan component is associated with a second priority, the second priority being lower than the first priority, and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include in the network provisioning instruction set one or more first instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter and to determine whether the traffic event possesses the characteristic that matches the second traffic classification filter, and one or more second instructions directing the network policy enforcement system to enforce the first network policy enforcement action and the second network policy enforcement action when the traffic event possesses both the characteristic that matches the first traffic classification filter and the characteristic	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the first service plan component is associated with a first priority, and wherein the second service plan component is associated with a second priority, the second priority being lower than the first priority, and wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises include in the network provisioning instruction set one or more first instructions directing the network traffic inspection system to determine whether the traffic event possesses the characteristic that matches the first traffic classification filter and to determine whether the traffic event possesses the characteristic that matches the second traffic classification filter, and one or more second instructions directing the network policy enforcement system to enforce the first network policy enforcement action and the second network policy enforcement action when the traffic event possesses both the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.

that matches the second traffic classification filter.	
33. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises order one or more first instructions associated with the first traffic classification filter and one or more second instructions associated with the second traffic classification filter so that the first traffic classification filter is applied to the traffic event before the second traffic classification filter is applied to the traffic event.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises order one or more first instructions associated with the first traffic classification filter and one or more second instructions associated with the second traffic classification filter so that the first traffic classification filter is applied to the traffic event before the second traffic classification filter is applied to the traffic event." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
35. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises apply an explicit priority rule.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises apply an explicit priority rule." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
36. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more traffic inspection provisioning instructions so that the network traffic inspection system determines whether the traffic event possesses the characteristic that matches

the second traffic classification filter comprises configure the one or more traffic inspection provisioning instructions so that the network traffic inspection system determines whether the traffic event possesses the characteristic that matches the first traffic classification filter before determining whether the traffic event possesses the characteristic that matches the second traffic classification filter.	the first traffic classification filter before determining whether the traffic event possesses the characteristic that matches the second traffic classification filter." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
37. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more policy enforcement provisioning instructions so that the network policy enforcement system applies the first policy enforcement action before applying the second policy enforcement action.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more policy enforcement provisioning instructions so that the network policy enforcement system applies the first policy enforcement action before applying the second policy enforcement action." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
38. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more	The Accused Instrumentalities comprise "process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more traffic inspection provisioning instructions so that when the traffic event possesses the characteristic that matches the first traffic classification filter, the network policy enforcement system applies the first policy enforcement action, and the network traffic inspection system does not determine whether the traffic event possesses the characteristic that matches the second traffic classification filter."

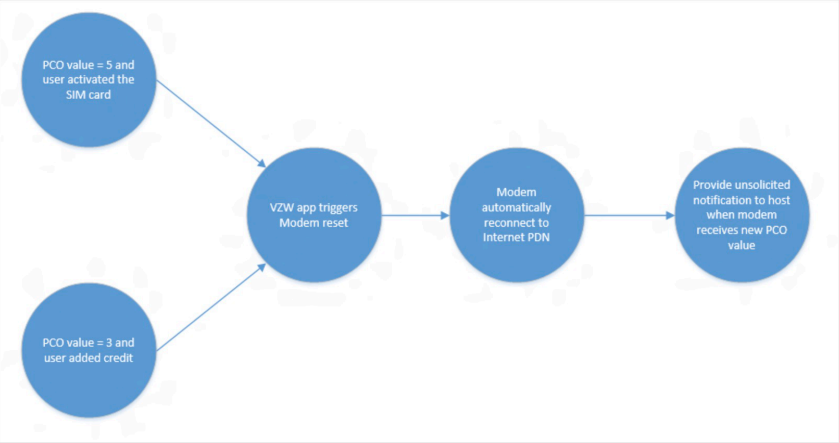
traffic inspection provisioning instructions so that when the traffic event possesses the characteristic that matches the first traffic classification filter, the network policy enforcement system applies the first policy enforcement action, and the network traffic inspection system does not determine whether the traffic event possesses the characteristic that matches the second traffic classification filter.	*See, e.g.*, claim 3.
39. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the network provisioning instruction set so that when the traffic event possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, the first policy enforcement action has a higher priority than the second policy enforcement action.	The Accused Instrumentalities comprise "process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the network provisioning instruction set so that when the traffic event possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, the first policy enforcement action has a higher priority than the second policy enforcement action." *See, e.g.*:

	 These are the general priority levels, illustrated in QCI values, used by T-Mobile, Verizon, and AT&T https://www.bestphoneplans.net/news/data-priority
40. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more	The Accused Instrumentalities comprise "process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more traffic inspection provisioning instructions so that when the network traffic inspection system determines that the traffic event possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, the network policy enforcement system applies the first policy enforcement action but does not apply the second policy enforcement action." *See, e.g.*:

traffic inspection provisioning instructions so that when the network traffic inspection system determines that the traffic event possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, the network policy enforcement system applies the first policy enforcement action but does not apply the second policy enforcement action.	 These are the general priority levels, illustrated in QCI values, used by T-Mobile, Verizon, and AT&T https://www.bestphoneplans.net/news/data-priority
41. The network service plan provisioning system of claim 1, wherein process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more	The Accused Instrumentalities comprise “process the first service plan component and the second service plan component to create a network provisioning instruction set in accordance with a prioritization of the first traffic classification filter over the second traffic classification filter comprises configure the one or more traffic inspection provisioning instructions so that when the network traffic inspection system determines that the traffic event possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, the network policy enforcement system applies the first policy enforcement action before applying the second policy enforcement action.” For example, the service plan components comprise a first policy enforcement action that prioritizes the traffic

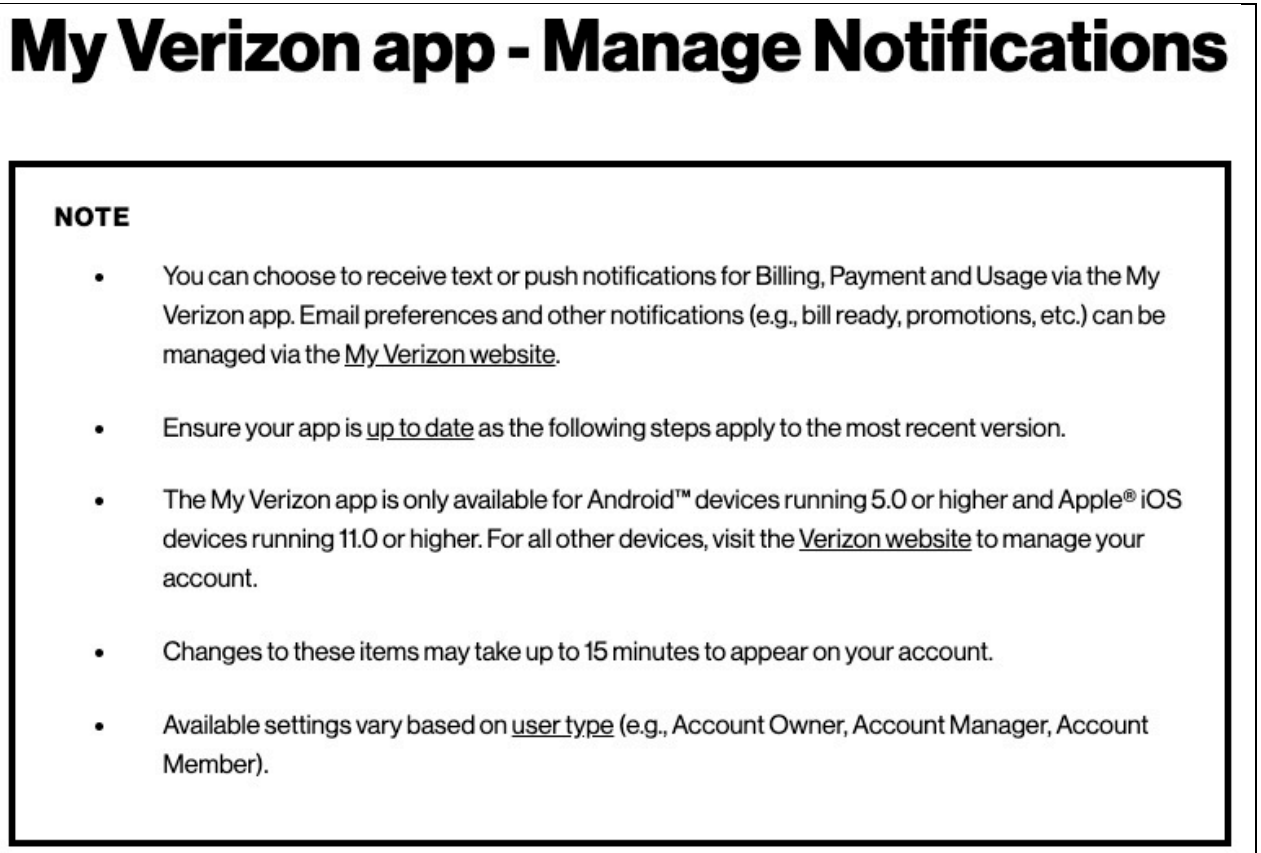
traffic inspection provisioning instructions so that when the network traffic inspection system determines that the traffic event possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, the network policy enforcement system applies the first policy enforcement action before applying the second policy enforcement action.	event (e.g., video streaming) and a second policy enforcement action that throttles data, when the network traffic inspection system determines that the traffic event (e.g., video streaming) possesses the characteristic that matches the first traffic classification filter and the characteristic that matches the second traffic classification filter, and high-speed data usage for the service period exceeds the limit under the subscription plan. *See* claim 1.
42. The network service plan provisioning system of claim 1, wherein the network policy enforcement system comprises a policy decision element.	The Accused Instrumentalities comprise "the network policy enforcement system comprises a policy decision element." For example, Verizon's system comprises a policy decision element that determines which service plan components to implement for a particular device based on the subscription plan associated with that device. *See* claim 1.
43. The network service plan provisioning system of claim 1, wherein the network policy enforcement system or the network traffic inspection system comprises a gateway.	The Accused Instrumentalities comprise "the network policy enforcement system or the network traffic inspection system comprises a gateway." On information and belief, the gateway applies the network policy enforcement actions to traffic events before such traffic uses additional network resources.
44. The network service plan provisioning system of claim 1, wherein at least a portion of the network policy enforcement system is on the wireless end-user device.	The Accused Instrumentalities comprise "wherein at least a portion of the network policy enforcement system is on the wireless end-user device." *See* claim 1.
45. The network service plan provisioning system of claim 1, wherein at least a portion of the network policy enforcement system is in a network system communicatively coupled to the wireless end-user device over the wireless access network.	The Accused Instrumentalities comprise "at least a portion of the network policy enforcement system is in a network system communicatively coupled to the wireless end-user device over the wireless access network." *See* claim 1.
46. The network service plan provisioning system of claim 1, wherein	The Accused Instrumentalities comprise "the network traffic inspection system or the network policy enforcement system comprises a programmable element." *See* claims 1, 44.

the network traffic inspection system or the network policy enforcement system comprises a programmable element.	
47. The network service plan provisioning system of claim 1, wherein the network policy enforcement system or the network traffic inspection system comprises a modem or an agent on the wireless end-user device.	The Accused Instrumentalities comprise "the network policy enforcement system or the network traffic inspection system comprises a modem or an agent on the wireless end-user device." *See* claims 1, 44.
57. The network service plan provisioning system of claim 1, wherein the network policy enforcement system comprises a notification element.	The Accused Instrumentalities comprise "the network policy enforcement system comprises a notification element." On information and belief, a notification element implements a notification function that sends a message to the wireless end-user device indicating that data usage has reached a limit for the service period under the subscription plan which causes the device to display a notification to inform the user and prompt the user to purchase additional data or an upgraded plan. *See* claim 1.

	Resetting the modem based on PCO values Based on PCO values received from the network, the modem will be reset in the following scenarios: • The user completed self-activation after receiving PCO = 5 from the network. A new PCO value (3, 0 or anything Mobile Operator App can recognize) will be sent to the OS and the OS will pass it to Mobile Operator App. • The user added more credit to their account after receiving PCO = 3. A new PCO value (0, or anything Mobile Operator App can recognize) will be sent to the OS and the OS will pass it to Mobile Operator App. The host is not aware of the modem being reset, so the activated connections from the host will not be deactivated and the modem should automatically re-establish connection with those PDN after resetting. Upon establishing connection and receiving a new incoming PCO value from the network, the modem will provide an unsolicited NDIS_STATUS_WWAN_PCO_STATUS notification to the host. The following diagram illustrates the modem's reset flow when one of these scenarios occurs, with Verizon Wireless as the example MO:  https://learn.microsoft.com/en-us/windows-hardware/drivers/network/mb-protocol-configuration-options-pco-operations
58. The network service plan provisioning system of claim 1, wherein the network policy enforcement system implements a notification function.	The Accused Instrumentalities comprise "the network policy enforcement system implements a notification function." *See* claim 57.
59. The network service plan provisioning system of claim 58, wherein the one or more network elements are further configured to: obtain notification	The Accused Instrumentalities comprise "the one or more network elements are further configured to: obtain notification information, the notification information at least assisting to specify or identify a notification content, a notification trigger, or a notification offer; and

information, the notification information at least assisting to specify or identify a notification content, a notification trigger, or a notification offer; and determine at least a portion of the policy enforcement provisioning instructions based on the notification information.	determine at least a portion of the policy enforcement provisioning instructions based on the notification information." On information and belief, the Accused Instrumentalities obtain notification information when the user purchases purchase additional data or an upgraded plan (e.g., a data boost through the My Verizon app), which assists to identify the notification offer that resulted in the purchase, and determines at least a portion of the policy enforcement provisioning instructions (e.g., a data limit) based on the notification information.
60. The network service plan provisioning system of claim 1, wherein the one or more policies comprise a notification policy.	The Accused Instrumentalities comprise "the one or more policies comprise a notification policy." *See* claims 57-59.
61. The network service plan provisioning system of claim 60, wherein the one or more policy enforcement provisioning instructions assist in causing a notification to be delivered to a subscriber or to the wireless end-user device.	The Accused Instrumentalities comprise "the one or more policy enforcement provisioning instructions assist in causing a notification to be delivered to a subscriber or to the wireless end-user device." *See* claims 57-59.
62. The network service plan provisioning system of claim 61, wherein the notification comprises a selection option for providing feedback or instructions.	The Accused Instrumentalities comprise "the notification comprises a selection option for providing feedback or instructions." *See, e.g.*:

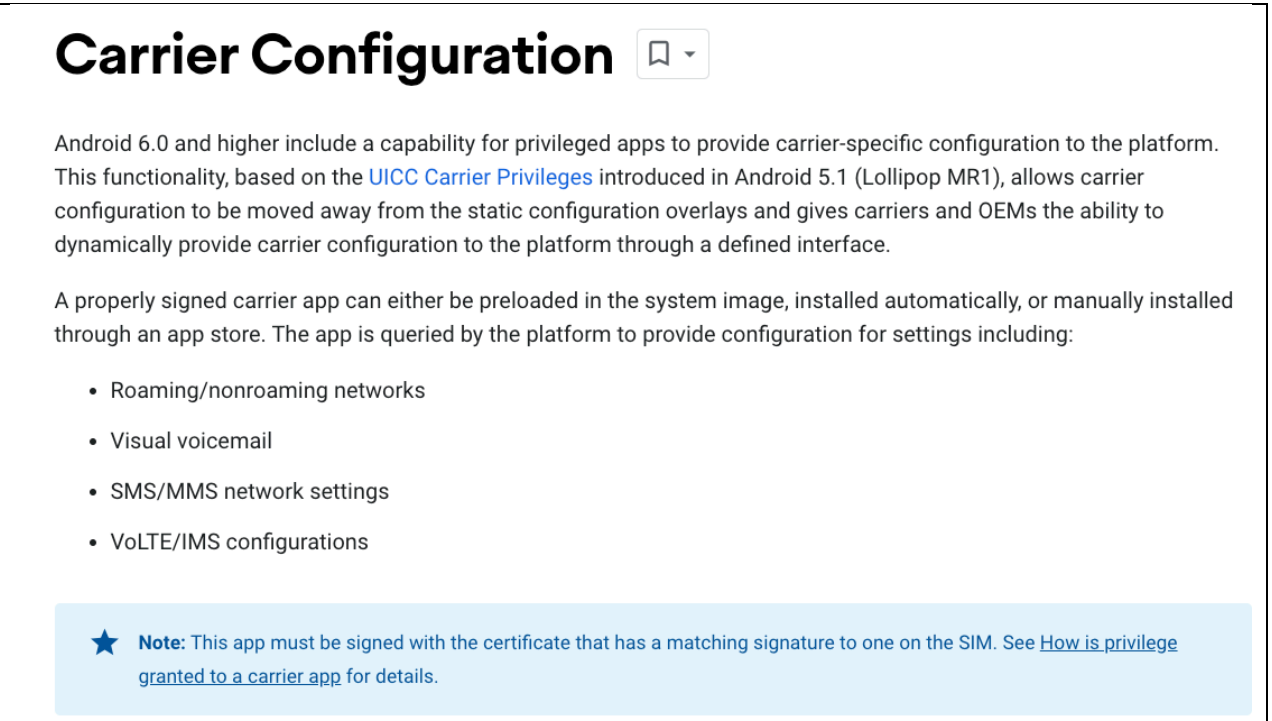
	1. Open the My Verizon app ☑. 2. Tap the Account tab (at the bottom). → If prompted, enter your password, fingerprint or Face ID. 3. Tap Usage. 4. Tap Get more data (at the bottom). → Option only available with eligible plans. 5. Select Data Boost then tap Next. → This option may also display on the Feed (landing) page when getting close to running out of data. 6. Tap Purchase data (at the bottom). 7. From the 'Confirm purchase' pop-up, tap Confirm. → After purchase, the 'Well done, you just added a Data Boost' page appears (image is an example). https://www.verizon.com/support/knowledge-base-205749/

	 https://www.verizon.com/support/knowledge-base-205636/
63. The network service plan provisioning system of claim 61, wherein the notification indicates that a usage of a service plan has reached a particular percentage of a limit, or that a requested network activity has been capped because a policy limit has been reached.	The Accused Instrumentalities comprise "the notification indicates that a usage of a service plan has reached a particular percentage of a limit, or that a requested network activity has been capped because a policy limit has been reached." *See* claims 57-59.
64. The network service plan provisioning system of claim 61, wherein	The Accused Instrumentalities comprise "the notification provides information about a service plan limit or an overage." *See* claims 57-59.

the notification provides information about a service plan limit or an overage.	
65. The network service plan provisioning system of claim 61, wherein the notification provides information about an offer.	The Accused Instrumentalities comprise "the notification provides information about an offer." *See* claims 57-59.
66. The network service plan provisioning system of claim 65, wherein the offer is an offer to allow an overage, an offer for a new service plan, or an offer to block an ongoing usage.	The Accused Instrumentalities comprise "the offer is an offer to allow an overage, an offer for a new service plan, or an offer to block an ongoing usage." *See* claims 57-59.
68. The network service plan provisioning system of claim 61, wherein the notification provides information about an activity of the wireless end-user device that has been blocked, or an activity of the wireless end-user device that is not allowed.	The Accused Instrumentalities comprise "the notification provides information about an activity of the wireless end-user device that has been blocked, or an activity of the wireless end-user device that is not allowed." *See* claims 57-59.
69. The network service plan provisioning system of claim 61, wherein the notification provides a message or an offer based on a current activity or a status of the wireless end-user device.	The Accused Instrumentalities comprise "the notification provides a message or an offer based on a current activity or a status of the wireless end-user device." *See* claims 57-59.
70. The network service plan provisioning system of claim 69, wherein the current activity or the status of the wireless end-user device is based on the traffic event.	The Accused Instrumentalities comprise "the current activity or the status of the wireless end-user device is based on the traffic event." *See* claims 57-59.
71. The network service plan provisioning system of claim 61, wherein the notification is an actionable notification enabling a user of the wireless end-user device to provide a response to the notification.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 61, wherein the notification is an actionable notification enabling a user of the wireless end-user device to provide a response to the notification." *See* claims 57-59.

72. The network service plan provisioning system of claim 71, wherein the response comprises a directive to dismiss the notification, a directive to cancel the notification, an acknowledgment of the notification, a request for information, or a request to make a purchase.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 71, wherein the response comprises a directive to dismiss the notification, a directive to cancel the notification, an acknowledgment of the notification, a request for information, or a request to make a purchase." *See* claims 57-59.
80. The network service plan provisioning system of claim 61, wherein the notification comprises an upsell offer.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 61, wherein the notification comprises an upsell offer." *See* claims 57-59.
85. The network service plan provisioning system of claim 61, wherein the notification comprises information about a purchase, a data usage, an application, an amount of data, a percentage, or a combination of these.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 61, wherein the notification comprises information about a purchase, a data usage, an application, an amount of data, a percentage, or a combination of these." *See* claims 57-59.
86. The network service plan provisioning system of claim 61, wherein the notification comprises information to assist a subscriber in activating the wireless end-user device, selecting a service plan for the wireless end-user device, setting a preference, or a combination of these.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 61, wherein the notification comprises information to assist a subscriber in activating the wireless end-user device, selecting a service plan for the wireless end-user device, setting a preference, or a combination of these." *See* claims 57-59.
87. The network service plan provisioning system of claim 1, wherein the one or more policies comprise a traffic control policy.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the one or more policies comprise a traffic control policy." *See* claim 1.
88. The network service plan provisioning system of claim 87, wherein the control policy specifies to allow, block, throttle, delay, or defer the traffic event.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 87, wherein the control policy specifies to allow, block, throttle, delay, or defer the traffic event." *See* claim 1.

89. The network service plan provisioning system of claim 87, wherein the traffic control policy is based on a network state, a device state, a service-plan-usage state, or a combination of these.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 87, wherein the traffic control policy is based on a network state, a device state, a service-plan-usage state, or a combination of these." *See* claim 1.
90. The network service plan provisioning system of claim 1, wherein the traffic event is associated with a particular destination, a particular application on the wireless end-user device, a content type, a protocol, a port, or an operating system of the wireless end-user device.	The Accused Instrumentalities comprise "the traffic event is associated with a particular destination, a particular application on the wireless end-user device, a content type, a protocol, a port, or an operating system of the wireless end-user device." *See* claim 1.
91. The network service plan provisioning system of claim 1, wherein the traffic event is associated with a specified remote destination, a specified application, a specified operating system, a specified content, a specified protocol, or a specified port number.	The Accused Instrumentalities comprise "the traffic event is associated with a specified remote destination, a specified application, a specified operating system, a specified content, a specified protocol, or a specified port number." *See* claim 1.
92. The network service plan provisioning system of claim 91, wherein the specified remote destination is identified by a domain or an Internet protocol (IP) address.	The Accused Instrumentalities comprise "the specified remote destination is identified by a domain or an Internet protocol (IP) address." *See* claims 1, 91.
93. The network service plan provisioning system of claim 91, wherein the specified application is identified by a name, a hash, a certificate, or a signature.	The Accused Instrumentalities comprise "the specified application is identified by a name, a hash, a certificate, or a signature." *See, e.g.*:

	 https://source.android.com/docs/core/connect/carrier
96. The network service plan provisioning system of claim 1, wherein the first service plan component or the second service plan component comprises a carrier component, a network protection component, an application component, a sponsored component, a subscriber-paid component, a marketing interceptor component, a parental control component, a bulk component, a post-bulk component, or an end-of-life component.	The Accused Instrumentalities comprise "the first service plan component or the second service plan component comprises a carrier component, a network protection component, [or] an application component." *See* claim 1.
98. The network service plan provisioning system of claim 1, wherein	The Accused Instrumentalities comprise "the first service plan component or the second service plan component is associated with a service class." *See* claim 1.

the first service plan component or the second service plan component is associated with a service class.	
99. The network service plan provisioning system of claim 98, wherein the service class is paid, marketing intercept, carrier, network protection, sponsored, parental control, open access, bulk, post-bulk, or a combination of these.	The Accused Instrumentalities comprise "the service class is paid … carrier, network protection … open access … or a combination of these." *See* claims 1, 96, 98.
112. The network service plan provisioning system of claim 1, wherein the information specifying the first traffic classification filter or the information specifying the second traffic classification filter comprises a name, a description, a filtering parameter, a launch mechanism, or a combination of these.	The Accused Instrumentalities comprise "the information specifying the first traffic classification filter or the information specifying the second traffic classification filter comprises a name, a description, a filtering parameter, a launch mechanism, or a combination of these." *See* claim 1.
113. The network service plan provisioning system of claim 112, wherein the filter parameter specifies filtering the traffic event by destination, by application, by operating system, by protocol, or by port.	The Accused Instrumentalities comprise "the filter parameter specifies filtering the traffic event by destination, by application, by operating system, by protocol, or by port." *See* claim 1.
120. The network service plan provisioning system of claim 1, wherein the one or more policies comprise a policy associated with a tethering function.	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the one or more policies comprise a policy associated with a tethering function." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.
121. The network service plan provisioning system of claim 1, wherein the one or more policies comprise a	The Accused Instrumentalities comprise "[t]he network service plan provisioning system of claim 1, wherein the one or more policies comprise a policy associated with a web page, a

policy associated with a web page, a domain, an application, a roaming network, an e-mail service, a networking service, a music download service, a video game service, a multimedia service, or a combination of these.	domain, an application, a roaming network, an e-mail service, a networking service, a music download service, a video game service, a multimedia service, or a combination of these." *See*, for example, the disclosures identified for claims 1, 8-9, and 15.